

# Final Assignment

January 29, 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
```

Collecting yfinance

Downloading yfinance-0.2.52-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-2.2.2-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)
Collecting lxml>=4.9.1 (from yfinance)
    Downloading lxml-5.3.0-cp312-cp312-manylinux_2_28_x86_64.whl.metadata (3.8 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-3.17.8.tar.gz (948 kB)
                                     948.2/948.2 kB
48.8 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)
Collecting html5lib>=1.1 (from yfinance)
    Downloading html5lib-1.1-py2.py3-none-any.whl.metadata (16 kB)
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: six>=1.9 in /opt/conda/lib/python3.12/site-
packages (from html5lib>=1.1->yfinance) (1.17.0)
Requirement already satisfied: webencodings in /opt/conda/lib/python3.12/site-
packages (from html5lib>=1.1->yfinance) (0.5.1)
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-2025.1-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)
Downloading yfinance-0.2.52-py2.py3-none-any.whl (108 kB)
Downloading html5lib-1.1-py2.py3-none-any.whl (112 kB)
Downloading lxml-5.3.0-cp312-cp312-manylinux_2_28_x86_64.whl (4.9 MB)
                                     4.9/4.9 MB
168.3 MB/s eta 0:00:00
Downloading multitasking-0.0.11-py3-none-any.whl (8.5 kB)
Downloading
numpy-2.2.2-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (16.1 MB)

```

16.1/16.1 MB

186.1 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

184.9 MB/s eta 0:00:00

Downloading tzdata-2025.1-py2.py3-none-any.whl (346 kB)

Building wheels for collected packages: peewee

Building wheel for peewee (pyproject.toml) ... one

Created wheel for peewee:

filename=peewee-3.17.8-cp312-cp312-linux\_x86\_64.whl size=303769

sha256=a96a8fa6d5e4280af52c899b99a6b70bedfbb50c2edfc650d84ffd1219e1fcd8

Stored in directory: /home/jupyterlab/.cache/pip/wheels/8f/65/34/456800445efea  
fb05164fe95285c70e81ba1d96bae30f43917

Successfully built peewee

Installing collected packages: peewee, multitasking, tzdata, numpy, lxml,  
html5lib, pandas, yfinance

Successfully installed html5lib-1.1 lxml-5.3.0 multitasking-0.0.11 numpy-2.2.2  
pandas-2.2.3 peewee-3.17.8 tzdata-2025.1 yfinance-0.2.52

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) (24.3.0)

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)  
(0.35.1)

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)
```

```
[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
```

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.

```
[3]: 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.

```
[4]: 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()
```

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.

```
[28]: Tesla = yf.Ticker('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.

```
[29]: tesla_data = Tesla.history(period = 'max')
```

**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.

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

```
[30]:
```

	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

## 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/IBMDDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/revenue.htm> Save the text of the response as a variable named `html_data`.

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



```

compiled and minified CSS -->\n\t\t<link rel="stylesheet"
href="//www.fuelcdn.com/fuelux/3.13.0/css/fuelux.min.css">\n\n\t\t<!-- Latest
compiled and minified JavaScript -->\n\t\t<script src="//www.fuelcdn.com/fuelux/
3.13.0/js/fuelux.min.js"></script>\n\t\t\n\t\t\n\t\t<!-- Twitter Card data
-->\n\t\t<meta name="twitter:card" content="summary_large_image">\n\t\t<meta
name="twitter:site" content="@tmacrorends">\n\t\t<meta name="twitter:title"
content="Tesla Revenue 2010-2022 | TSLA">\n\t\t<meta
name="twitter:description" content="Tesla annual/quarterly revenue history and
growth rate from 2010 to 2022. 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\t\t\t\t\t\n\t\t\t\t\t<ul style=\`margin-top:10px;\`>\n\t\t\t\t\t<li>Tesla revenue
for the quarter ending September 30, 2022 was <strong>$21.454B</strong>, a
<strong>55.95% increase</strong> year-over-year.</li>\n\t\t\t\t\t<li>Tesla revenue
for the twelve months ending September 30, 2022 was <strong>$74.863B</strong>, a
<strong>59.8% increase</strong> year-over-year.</li>\n\t\t\t\t\t<li>Tesla annual
revenue for 2021 was <strong>$53.823B</strong>, a <strong>70.67%
increase</strong> from 2020.</li>\n\t\t\t\t\t<li>Tesla annual revenue for 2020 was
<strong>$31.536B</strong>, a <strong>28.31% increase</strong> from
2019.</li>\n\t\t\t\t\t<li>Tesla annual revenue for 2019 was
<strong>$24.578B</strong>, a <strong>14.52% increase</strong> from
2018.</li>\n\t\t\t\t\t</ul>">\n\n\t\t<!-- Open Graph data -->\n\t\t<meta
property="og:url"
content="https://www.macrorends.net/stocks/charts/TSLA/tesla/revenue" />
\n\t\t<meta property="og:title" content="Tesla Revenue 2010-2022 | TSLA"
/>\n\t\t<meta property="og:description" content="Tesla annual/quarterly
revenue history and growth rate from 2010 to 2022. 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\t\t\t\t\t\n\t\t\t\t\t<ul style=\`margin-top:10px;\`>\n\t\t\t\t\t<li>Tesla revenue
for the quarter ending September 30, 2022 was <strong>$21.454B</strong>, a
<strong>55.95% increase</strong> year-over-year.</li>\n\t\t\t\t\t<li>Tesla revenue
for the twelve months ending September 30, 2022 was <strong>$74.863B</strong>, a
<strong>59.8% increase</strong> year-over-year.</li>\n\t\t\t\t\t<li>Tesla annual
revenue for 2021 was <strong>$53.823B</strong>, a <strong>70.67%
increase</strong> from 2020.</li>\n\t\t\t\t\t<li>Tesla annual revenue for 2020 was
<strong>$31.536B</strong>, a <strong>28.31% increase</strong> from
2019.</li>\n\t\t\t\t\t<li>Tesla annual revenue for 2019 was
<strong>$24.578B</strong>, a <strong>14.52% increase</strong> from
2018.</li>\n\t\t\t\t\t</ul>" />\n\n\t\t<!-- JQXGRID STYLES AND JAVASCRIPT
-->\n\t\t<link rel="stylesheet"
href="/assets/php/jqfiles/jqwidgets/styles/jqx.base.css" type="text/css"
/>\n\t\t<link rel="stylesheet"
href="/assets/php/jqfiles/jqwidgets/styles/jqx.bootstrap.css" type="text/css"
/>\n\n\t\t<!-- LOAD THESE SCRIPTS EARLY SO THE TICKER INPUT FIELD IS STYLED

```























	>2022-06-
\$16,934	</td><tr>\n\t\t\t\t<td style="text-align:center">\$18,756</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2022-03-
\$18,756	</td><tr>\n\t\t\t\t<td style="text-align:center">\$17,719</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2021-12-
\$17,719	</td><tr>\n\t\t\t\t<td style="text-align:center">\$13,757</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2021-09-
\$13,757	</td><tr>\n\t\t\t\t<td style="text-align:center">\$11,958</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2021-06-
\$11,958	</td><tr>\n\t\t\t\t<td style="text-align:center">\$10,389</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2021-03-
\$10,389	</td><tr>\n\t\t\t\t<td style="text-align:center">\$10,744</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2020-12-
\$10,744	</td><tr>\n\t\t\t\t<td style="text-align:center">\$8,771</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2020-09-
\$8,771	</td><tr>\n\t\t\t\t<td style="text-align:center">\$6,036</td>\n\t\t\t\t<tr>\n\t\t\t\t<td style="text-align:center">
	>2020-06-
\$6,036	</td><tr>\n\t\t\t\t<td style="text-align:center">
	>2020-03-

	\$16,934	
--	----------	--

[illegible]

	\$18,756	
--	----------	--

	2021-12-
--	----------

	\$17,719	
--	----------	--

	2021-09-
--	----------

[illegible][illegible][illegible]

>2021-03-

	\$10,389	
--	----------	--

>2020-12-

	\$10,744	
--	----------	--

>2020-09-

	\$8,771	
--	---------	--

>2020-06-

[illegible]

>2020-03-

[illegible]

[illegible]



	\$562
2012-12-	
	\$306
2012-09-	
	\$50
2012-06-	
	\$27
2012-03-	
	\$30
2011-12-	
	\$39
2011-09-	
	\$58
2011-06-	
	\$58
2011-03-	
	\$49
2010-12-	
	\$36



in battery-powered electric car sales in the United States, with roughly 70% market share. The company's flagship Model 3 is the best-selling EV model in the United States. Tesla, which has managed to garner the reputation of a gold standard over the years, is now a far bigger entity than what it started off since its IPO in 2010, with its market cap crossing \$1 trillion for the first time in October 2021. The EV king's market capitalization is more than the combined value of legacy automakers including Toyota, Volkswagen, Daimler, General Motors and Ford. Over the years, Tesla has shifted from developing niche products for affluent buyers to making more affordable EVs for the masses. The firm's three-pronged business model approach of direct sales, servicing, and charging its EVs sets it apart from other carmakers. Tesla, which is touted as the clean energy revolutionary automaker, is much more than just a car manufacturer.

Stock Name	Country	Market Cap	PE Ratio
<a href="/stocks/charts/GM/general-motors/revenue/">General Motors (GM)</a>	United States	\$53.930B	5.56
<a href="/stocks/charts/F/ford-motor/revenue/">Ford Motor (F)</a>	United States	\$52.668B	8.09
<a href="/stocks/charts/HOG/harley-davidson/revenue/">Harley-Davidson (HOG)</a>	United States	\$6.762B	9.56
<a href="/stocks/charts/PII/polaris/revenue/">Polaris (PII)</a>	United States	\$6.267B	11.86
<a href="/stocks/charts/IAA/iaa/revenue/">IAA (IAA)</a>	United States	\$6.267B	11.86

	\$5.134B	
Fisker (FSR)	United States	\$2.261B
Lion Electric (LEV)	Canada	\$0.551B
Volta (VLTA)	United States	\$0.071B
Bird Global (BRDS)	United States	\$0.054B
Lightning EMotors (ZEV)	United States	\$0.043B

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```

"#chartExport" ).click(function()
{\n\t\n\t\twindow.$(\'#smallWidthModal1\').modal();\n\n\t\t//Turn off scroll bar
for image export\n\t\t\tchart.chartScrollbarSettings.enabled =
false;\n\t\t\tchart.validateNow();
\n\t\t\t\n\t\t\t\n\t\t\t\tchart.export.capture({},function()
{\n\t\t\t\t\tthis.toPNG({},function(data) {\n\t\t\t\t\t\t\t// Download the image to the
browser\n\t\t\t\t\t\t\tthis.download( data, "image/png", "TSLA-
revenue-2022-12-09-macrotrends.png" );\n\t\t\t\t\t\t\t\n\t\t\t\t\t\t\t});\n\n\t\t\t\t\t//Turn
scroll bar back on again\n\t\t\t\t\tchart.chartScrollbarSettings.enabled =
true;\n\t\t\t\t\tchart.validateNow(); \n\t\t\t\t\t\n\t\t\t\t\t});\n\n\t\t\t});\n\n\t\t\t(
".statement_type_select" ).change(function() {\n \n \n window.location.href = \'h
ttps://testing.macrotrends.net/assets/php/income_statement_testing.php?t=ZEV&typ
e=\' + this.value + \'&freq=Q\';\n\n\t\t});\n\n\t\t( ".frequency_select"
).change(function() {\n \n \n window.location.href =
\'/assets/php/new_chart_page.php?t=ZEV&type=revenue&freq=\' +
this.value;\n\n\t\t});\n\n\t\t</script>\n\n\t\t<!--<div class="modal" id="contribute_modal"
tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel" aria-
hidden="false">\n \n <div class="modal-dialog modal-lg">\n \n <div class="modal-
content">\n \n <div class="modal-body" style="margin:20px 40px 20px 40px;
text-align:left;font-size:18px;">\n\t \t \n\n\n<div class="row">\n\n<div
class="col-xs-6">\n\n<script src="https://donorbox.org/widget.js"
paypalExpress="true"></script><iframe
src="https://donorbox.org/embed/macrotrends-donations?hide_donation_meter=true"
height="685px" width="100%" style="max-width:500px; min-width:310px; max-
height:none!important" seamless="seamless" name="donorbox" frameborder="0"
scrolling="no" allowpaymentrequest></iframe>\n\n</div>\n\n<div class="col-
xs-6">\n\n\t\t<div class="modal_title"><h1><strong>We Need Your
Support!</strong></h1></div>\n\n\t\t<p><strong>Macrotrends has been
subscription-free since 2010 and we want to keep it that
way.</strong></p>\n\n<p>Our goal has always been to serve as an easily
accessible, high quality source of investment research for both professionals
and amateurs alike.</p>\n\n<p>Any amount that you can contribute will help
ensure we can keep the site completely free for many years to come.</p>\n\n<p
style="margin-top:20px;">Regards,</p>\n\n<p>The Macrotrends
Team</p>\n\n</div>\n\n</div>\n\n</div>\n\n \n \n <div class="modal-footer"
style="text-align:center;">\n \n \n <button type="button" class="btn btn-
success" data-dismiss="modal">Maybe Next Time...</button>\n \n \n </div>\n
</div>\n \n </div>\n\n</div>\t\n\n\n<script src="/ads.js"
type="text/javascript"></script>\n\n<script>\n\n\t\t\t\t\t(document).ready(function()
{\n\t\t\t\t\t\t\tvar botPattern = "(googlebot\\|Googlebot-Mobile|Googlebot-Image|Google
favicon|Mediapartners-Google|bingbot|slurp|java|wget|curl|Commons-
HttpClient|Python-urllib|libwww|httpunit|nutch|phpcrawl|msnbot|jyrobot|FAST-
WebCrawler|FAST Enterprise Crawler|biglotron|teoma|convera|seekbot|gigablast|exa
bot|ngbot|ia_archiver|GingerCrawler|webmon |httrack|webcrawler|grub.org|UsineNou
velleCrawler|antibot|netresearchserver|speedy|fluffy|bibnum.bnf|findlink|msrbot|
panscient|yacybot|AISearchBot|IOI|ips-agent|tagoobot|MJ12bot|dotbot|woribot|yan
ga|buzzbot|mlbot|yandexbot|purebot|Linguee Bot|Voyager|CyberPatrol|voilabot|baid

```



```
src="//in.getclicky.com/100827248ns.gif" /></p></noscript>\n\n\n\n<!-- This site
is converting visitors into subscribers and customers with OptinMonster -
https://optinmonster.com -->\n<!-- <script type="text/javascript"
src="https://a.omappapi.com/app/js/api.min.js" data-account="6392" data-
user="15772" async></script> -->\n<!-- / OptinMonster
-->\n\n\n</body>\n\n</html>\n\n\t\n'
```

Parse the html data using beautiful\_soup using parser i.e html5lib or html.parser.

```
[10]: 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.

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

tables = pd.read_html(url) # reads tables in a html page
tesla_revenue = tables[1] # takes the second table and return as a DataFrame

tesla_revenue.columns = ["Date", "Revenue"] # assigning the column names

print(tesla_revenue)
```

	Date	Revenue
0	2022-09-30	\$21,454
1	2022-06-30	\$16,934
2	2022-03-31	\$18,756
3	2021-12-31	\$17,719

4	2021-09-30	\$13,757
5	2021-06-30	\$11,958
6	2021-03-31	\$10,389
7	2020-12-31	\$10,744
8	2020-09-30	\$8,771
9	2020-06-30	\$6,036
10	2020-03-31	\$5,985
11	2019-12-31	\$7,384
12	2019-09-30	\$6,303
13	2019-06-30	\$6,350
14	2019-03-31	\$4,541
15	2018-12-31	\$7,226
16	2018-09-30	\$6,824
17	2018-06-30	\$4,002
18	2018-03-31	\$3,409
19	2017-12-31	\$3,288
20	2017-09-30	\$2,985
21	2017-06-30	\$2,790
22	2017-03-31	\$2,696
23	2016-12-31	\$2,285
24	2016-09-30	\$2,298
25	2016-06-30	\$1,270
26	2016-03-31	\$1,147
27	2015-12-31	\$1,214
28	2015-09-30	\$937
29	2015-06-30	\$955
30	2015-03-31	\$940
31	2014-12-31	\$957
32	2014-09-30	\$852
33	2014-06-30	\$769
34	2014-03-31	\$621
35	2013-12-31	\$615
36	2013-09-30	\$431
37	2013-06-30	\$405
38	2013-03-31	\$562
39	2012-12-31	\$306
40	2012-09-30	\$50
41	2012-06-30	\$27
42	2012-03-31	\$30
43	2011-12-31	\$39
44	2011-09-30	\$58
45	2011-06-30	\$58
46	2011-03-31	\$49
47	2010-12-31	\$36
48	2010-09-30	\$31
49	2010-06-30	\$28
50	2010-03-31	\$21
51	2009-12-31	NaN

```
52 2009-09-30      $46
53 2009-06-30      $27
```

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

```
[41]: tesla_revenue["Revenue"] = tesla_revenue['Revenue'].astype(str).
      ↪replace(r'[\$,]', '', regex=True)
tesla_revenue
```

```
[41]:
```

	Date	Revenue
0	2022-09-30	21454
1	2022-06-30	16934
2	2022-03-31	18756
3	2021-12-31	17719
4	2021-09-30	13757
5	2021-06-30	11958
6	2021-03-31	10389
7	2020-12-31	10744
8	2020-09-30	8771
9	2020-06-30	6036
10	2020-03-31	5985
11	2019-12-31	7384
12	2019-09-30	6303
13	2019-06-30	6350
14	2019-03-31	4541
15	2018-12-31	7226
16	2018-09-30	6824
17	2018-06-30	4002
18	2018-03-31	3409
19	2017-12-31	3288
20	2017-09-30	2985
21	2017-06-30	2790
22	2017-03-31	2696
23	2016-12-31	2285
24	2016-09-30	2298
25	2016-06-30	1270
26	2016-03-31	1147
27	2015-12-31	1214
28	2015-09-30	937
29	2015-06-30	955
30	2015-03-31	940
31	2014-12-31	957
32	2014-09-30	852
33	2014-06-30	769
34	2014-03-31	621
35	2013-12-31	615
36	2013-09-30	431
37	2013-06-30	405



38	2013-03-31	562
39	2012-12-31	306
40	2012-09-30	50
41	2012-06-30	27
42	2012-03-31	30
43	2011-12-31	39
44	2011-09-30	58
45	2011-06-30	58
46	2011-03-31	49
47	2010-12-31	36
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

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

```
[13]: 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.

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

```
[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
```

#### 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`.

```
[31]: GameStop = 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.

```
[33]: gme_data = GameStop.history(period = 'max')
```

**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.

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

```
[34]:
```

	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	1.712708	1.716074	1.670626	1.683251	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	1.615920	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

## 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`.

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

```
[19]: '<!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"
```



```

respond=1.1.0.min.js.download"></script>\n\n\t\t<!-- Latest compiled and
minified CSS -->\n\n\t\t<link rel="stylesheet" href="./GameStop Revenue 2006-2020
_GME _ MacroTrends_files/fuelux.min.css">\n\n\t\t<!-- Latest compiled and
minified JavaScript -->\n\n\t\t<script src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/fuelux.min.js.download"></script>\n\n\t\t\n\n\t\t\n\n\t\t\n\n\t\t
<!--
Twitter Card data -->\n\n\t\t\t<meta name="twitter:card"
content="summary_large_image">\n\n\t\t\t<meta name="twitter:site"
content="@tmacrorends">\n\n\t\t\t<meta name="twitter:title" content="GameStop
Revenue 2006-2020 | GME">\n\n\t\t\t<meta name="twitter: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\t
<!-- Open Graph data -->\n\n\t\t\t<meta property="og:url" content="https://web.arc
hive.org/web/20200814131437/https://www.macrorends.net/stocks/charts/GME/gamest
op/revenue"> \n\n\t\t\t<meta property="og:title" content="GameStop Revenue
2006-2020 | GME">\n\n\t\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\t<!-- JQXGRID
STYLES AND JAVASCRIPT -->\n\n\t\t\t<link rel="stylesheet" href="./GameStop Revenue
2006-2020 _ GME _ MacroTrends_files/jqx.base.css" type="text/css">\n\n\t\t\t<link
rel="stylesheet" href="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqx.bootstrap.css" type="text/css">\n\n\t\t\t<!-- LOAD THESE
SCRIPTS EARLY SO THE TICKER INPUT FIELD IS STYLED INSTANTLY -->\n\n\t\t\t<script
type="text/javascript" src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqxc.js.download"></script>\n\n\t\t\t<script
type="text/javascript" src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqxdata.js.download"></script> \n\n\t\t\t<script
type="text/javascript" src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jqxinput.js.download"></script> \n\n\t\t\t<!-- Styling for
search box -->\n\n\t\t\t<link rel="stylesheet" type="text/css" href="./GameStop
Revenue 2006-2020 _ GME _
MacroTrends_files/jquery.typeahead_pages.css">\n\n\t\t\t<!-- Search box javascript
-->\n\n\t\t\t<script src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/jquery.typeahead.min.js.download"></script>\n\n\t\t\t\n\n\t\t\t\n\n\t\t\t<link
href="./GameStop Revenue 2006-2020 _ GME _ MacroTrends_files/select2.min.css"
rel="stylesheet">\n\n\t\t\t<script src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/select2.min.js.download"></script>\n\n\t\t\t\n\n\t\t\t<!-- ToolTips
-->\n\n\t\t\t<script src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/tipped.js.download"></script>\n\n\t\t\t<link rel="stylesheet"
href="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/tipped.css">\n\n\t\t\t\n\n\t\t\t\n\n\t\t\t\n\n\t\t\t<script async=""
src="./GameStop Revenue 2006-2020 _ GME _
MacroTrends_files/uat.js.download"></script>\n\n\t\t\t<script
type="text/javascript">\n\n\t\t\t\tInvestingChannelQueue =

```







```

{\n\t\n\tpadding:5px 10px;\n\t\n}\n\n.nav-tabs {\n    border: 1px solid
#E0E0E0;\n\tbackground-color:#F5F5F5;\n\tpadding: 3px 5px 0px 5px;\n\tmargin:
0px 0px 10px 0px;\n}\n\n.nav-tabs>li>a {\n\tfont-size:13px;\n\tpadding:7px
12px;\n\tfont-weight:600;\n    margin-right: 0px;\n    line-height:
1.42857143;\n    border: 0px;\n    border-radius: 0px 0px 0 0;\n\tbackground-
color:#F5F5F5;\n\n}\n\n.nav-tabs>li>a .active {\n    margin-right: 0px;\n
line-height: 1.42857143;\n    border: 1px solid #E0E0E0;\n    border-radius: 0px
0px 0 0;\n\tbackground-color:#F5F5F5;\n\n}\n\n.nav-tabs>li>a: hover { \n
background-color: #F5F5F5;\n\ttext-decoration:
underline;\n\n}\n\n.donate_buttons {\n\n\tmargin-left:20px;\n\t\n\t}\n\n.modal-
body {\n\n\tmargin:10px 40px 20px 40px;\n\ttext-align:left;\n\tfont-
size:18px;\n\n}\n\n.modal-body li {\n\n\tmargin-top:20px;\n\tfont-
size:14px;\n\n}\n\n.modal_title {\n\n\n\ttext-align:center;\n\tmargin-
bottom:30px;\n\n}\n\n.modal-body th{\n\n\tmargin-left:10px;\n\tfont-
size:14px;\n}\n\n.modal-body td {\n\n\tcolor: #337ab7;\n\tmargin-
left:10px;\n\tfont-size:14px;\n}\n\n.modal_button {\n\n\tmargin-
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-
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)

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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

```

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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-
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-
animation-fill-mode:both;animation-fill-mode:both;-webkit-animation-
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-

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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-
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-

```

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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'%20feGauss
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=fantw0h2","/_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<div
class="header_container">\n\n\t<div class="header_logo col-xs-2">\n\t\t<a
class="logo"
href="https://web.archive.org/web/20200814131437/https://www.macrotrends.net/"
title="MacroTrends Home Page"></a>\n\t</div>\n\n\n\t<div class="col-xs-1
pull-right" style="padding-top:8px; margin-right:10px; margin-left:0px; padding-
left:0px;">\n\t\t\n\t\t\n\t\t</div>\n\t\t\n\t\t\n\t\t<div class="col-xs-5
pull-right" style="padding-top:8px;">\n\t\t\t<form>\n\t\t\t\t<div
class="typeahead__container" style="z-index: 1041; position: relative;">\n
<div class="typeahead__field">\n\n\n\t\t\t\t<span class="typeahead__query">\n
<span class="typeahead__cancel-button">Ã</span><input class="js-typeahead"
name="q" type="search" placeholder="Search over 200,000 charts..." autofocus=""
autocomplete="off">\n\t\t\t\t\t</span>\n\t\t\t\t\t<span
class="typeahead__button">\n\t\t\t\t\t\t<button type="submit">\n
<span class="typeahead__search-icon"></span>\n\t\t\t\t\t\t</button>\n
</span>\n\t\t\t\t\t</div>\n\t\t\t\t\t<div
class="typeahead__result"></div></div><div class="typeahead__backdrop"
style="opacity: 0.6; position: fixed; inset: 0px; z-index: 1040; background-
color: rgb(255, 255, 255);"></div>\n\t\t\t\t\t</form>\n\t\t\t\t\t\n\t\t\t\t\t</div>\n\t\t\t\t\t\n\t\t\t\t\t</div>\n\n\n\n</div>\n\n<div class="menu_parent_container">\n\n<div
class="menu_container">\n\t\t\t\t\t\n\t\t\t\t\t<a href="https://web.archive.org/web/2020081413
1437/https://www.macrotrends.net/stocks/stock-screener"><div
class="menu_item">Stock Screener</div></a>\n\t\t\t\t\t<a href="https://web.archive.org/w
eb/20200814131437/https://www.macrotrends.net/stocks/research"><div
class="menu_item">Stock Research</div></a>\n\t\t\t\t\t<a href="https://web.archive.org/w
eb/20200814131437/https://www.macrotrends.net/charts/stock-indexes"><div
class="menu_item">Market Indexes</div></a>\n\t\t\t\t\t<a href="https://web.archive.org/w
eb/20200814131437/https://www.macrotrends.net/charts/precious-metals"><div
class="menu_item">Precious Metals</div></a>\n\t\t\t\t\t<a href="https://web.archive.org/
web/20200814131437/https://www.macrotrends.net/charts/energy"><div
class="menu_item">Energy</div></a>\n\t\t\t\t\t<a href="https://web.archive.org/web/20200
814131437/https://www.macrotrends.net/charts/commodities"><div

```





[illegible]



	\$6,466	
	\$8,285	
	\$8,547	
	\$7,965	
	\$9,364	
	\$9,296	
	\$9,040	
	\$8,887	
	\$9,551	
	\$9,474	
	\$9,078	
	\$8,806	

[illegible]



[illegible]

2014-04-	
2014-01-	
2013-10-	
2013-07-	
2013-04-	
2013-01-	
2012-10-	
2012-07-	
2012-04-	
2012-01-	



[illegible]

[illegible]

">2007-04-

30	<td style="text-align:center">\$1,279
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</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2007-01-
--	--

31	<td style="text-align:center">\$2,304
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</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2006-10-
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31	<td style="text-align:center">\$1,012
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	<td style="text-align:center">2006-07-
--	--

31	<td style="text-align:center">\$963
----	-------------------------------------

</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2006-04-
--	--

30	<td style="text-align:center">\$1,040
----	---------------------------------------

</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2006-01-
--	--

31	<td style="text-align:center">\$1,667
----	---------------------------------------

</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2005-10-
--	--

31	<td style="text-align:center">\$534
----	-------------------------------------

</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2005-07-
--	--

31	<td style="text-align:center">\$416
----	-------------------------------------

</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2005-04-
--	--

30	<td style="text-align:center">\$475
----	-------------------------------------

</td><tr>\n\t\t\t\t\t

	<td style="text-align:center">2005-01-
--	--

31	
----	--

[illegible]

[illegible]

LLC

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<a href="https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue">GameStop Revenue 2006-2020   GME</a>	<input class="modal_link" size="60" type="text" value="&amp;lt;a href=&amp;#39;https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue&amp;#39;&amp;gt;GameStop Revenue 2006-2020   GME&amp;lt;/a&amp;gt;"/>
<a href="https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue">Macrotrends</a>	<input class="modal_link" size="60" type="text" value="&amp;lt;a href=&amp;#39;https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue&amp;#39;&amp;gt;Macrotrends&amp;lt;/a&amp;gt;"/>
<a href="https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue">Source</a>	<input class="modal_link" size="60" type="text" value="&amp;lt;a href=&amp;#39;https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue&amp;#39;&amp;gt;Source&amp;lt;/a&amp;gt;"/>

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Link
------

62

[illegible]







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

Using BeautifulSoup or the `read_html` function extract the table with GameStop Revenue and store it into a dataframe named `gme_revenue`. The dataframe should have columns `Date` and `Revenue`. Make sure the comma and dollar sign is removed from the `Revenue` column.

[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

```
[39]: tables = pd.read_html(url)
gme_revenue = tables[1]
gme_revenue.columns = ["Date", "Revenue"]
gme_revenue["Revenue"] = gme_revenue['Revenue'].astype(str).str.
    ↪replace(r'[\$,]', '', regex=True)
print(gme_revenue)
```

	Date	Revenue
0	2020-04-30	1021
1	2020-01-31	2194
2	2019-10-31	1439
3	2019-07-31	1286
4	2019-04-30	1548
..	...	...
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

[62 rows x 2 columns]

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

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

```
[43]:
```

	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

## 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.

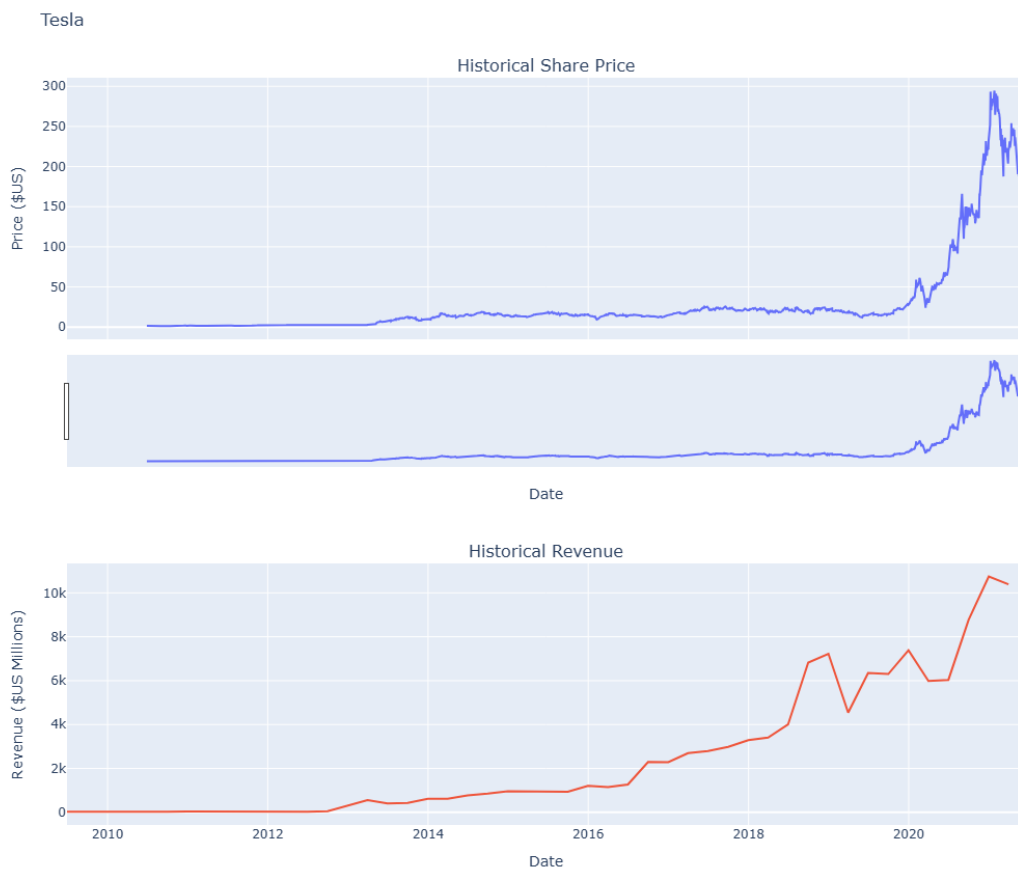
```
[44]: make_graph(tesla_data, tesla_revenue, 'Tesla')
```

/tmp/ipykernel\_130/3316612210.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\_130/3316612210.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.



## 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.

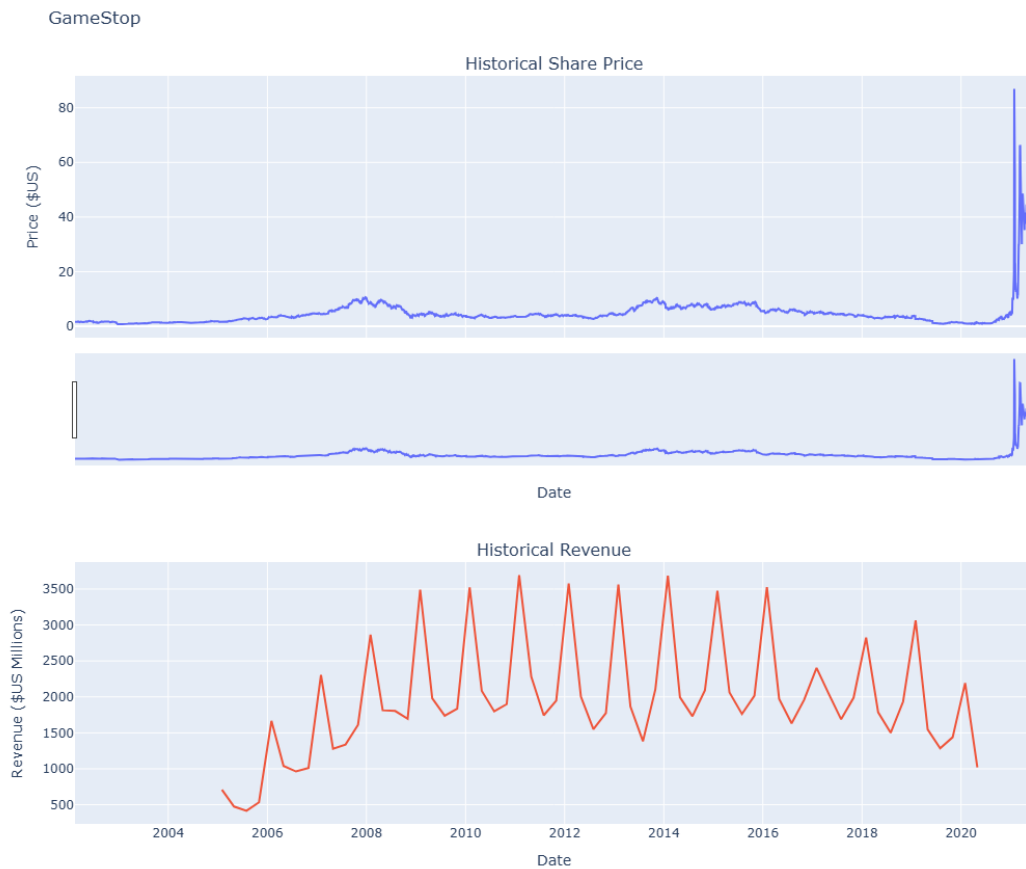
```
[45]: make_graph(gme_data, gme_revenue, 'GameStop')
```

```
/tmp/ipykernel_130/3316612210.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_130/3316612210.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.
```



#### 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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