

```
In [1]: from bs4 import BeautifulSoup
import requests
```

```
In [2]: url = 'https://en.wikipedia.org/wiki/List_of_largest_companies_in_the_United_States'
```

```
In [3]: requests.get(url)
```

```
Out[3]: <Response [200]>
```

```
In [4]: page = requests.get(url)
```

```
In [5]: BeautifulSoup(page.text, 'html')
```

```
-----
FeatureNotFound                                Traceback (most recent call last)
Cell In[5], line 1
```

```
----> 1 BeautifulSoup(page.text, 'html111')
```

```
File ~\anaconda3\lib\site-packages\bs4\_init_.py:248, in BeautifulSoup.__init__(self, markup, features, builder, parse_only, from_encoding, exclude_encodings, element_classes, **kwargs)
```

```
    246     builder_class = builder_registry.lookup(*features)
    247     if builder_class is None:
--> 248         raise FeatureNotFound(
    249             "Couldn't find a tree builder with the features you "
    250             "requested: %s. Do you need to install a parser library?"
    251             % ", ".join(features))
    253 # At this point either we have a TreeBuilder instance in
    254 # builder, or we have a builder_class that we can instantiate
    255 # with the remaining **kwargs.
    256 if builder is None:
```

```
FeatureNotFound: Couldn't find a tree builder with the features you requested: html111. Do you need to install a parser library?
```

```
In [6]: soup = BeautifulSoup(page.text, 'html')
```

```
In [7]: # to find the DOM data using tag
soup.find('table')
```

```
In [8]: # returns list of matching data from DOM
soup.find_all('table')
```

```
Out[8]: []
```

```
In [9]: #soup.find('table', class_ = 'wikitable sortable jquery-tablesorter') -- entire class
soup.find('table', class_ = 'wikitable sortable')
```

```
In [13]: table = soup.find('table', class_ = 'wikitable sortable')
```

```
In [16]: world_titles = table.find_all('th')
```

```
In [17]: print(world_titles)
```

```
[<th>Rank
</th>, <th>Name
</th>, <th>Industry
</th>, <th>Revenue <br/>(USD millions)
</th>, <th>Revenue growth
</th>, <th>Employees
</th>, <th>Headquarters
</th>]
```

```
In [18]: world_table_titles = [title.text for title in world_titles]

print(world_table_titles)

['Rank\n', 'Name\n', 'Industry\n', 'Revenue (USD millions)\n', 'Revenue growth\n',
'Employees\n', 'Headquarters\n']
```

```
In [19]: world_table_titles = [title.text.strip() for title in world_titles]

print(world_table_titles)

['Rank', 'Name', 'Industry', 'Revenue (USD millions)', 'Revenue growth', 'Employee
s', 'Headquarters']
```

```
In [21]: import pandas as pd

df = pd.DataFrame(columns = world_table_titles)

df
```

```
Out[21]:
```

Rank	Name	Industry	Revenue (USD millions)	Revenue growth	Employees	Headquarters
------	------	----------	------------------------	----------------	-----------	--------------

```
In [22]: column_data = table.find_all('tr')
```

```
In [10]: for row in column_data:
          print(row.find_all('td'))
```

```
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NameError                                Traceback (most recent call last)
Cell In[10], line 1
----> 1 for row in column_data:
      2     print(row.find_all('td'))

NameError: name 'column_data' is not defined
```

```
In [11]: for row in column_data:
          row_data = row.find_all('td')
          individual_row_data = [data.text.strip() for data in row_data]
          print(individual_row_data)
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[11], line 1
----> 1 for row in column_data:
      2     row_data = row.find_all('td')
      3     individual_row_data = [data.text.strip() for data in row_data]

NameError: name 'column_data' is not defined
```

```
In [12]: for row in column_data:
          row_data = row.find_all('td')
          individual_row_data = [data.text.strip() for data in row_data]

          # insert the row data in to df
```

```
length = len(df)
df.loc[length] = individual_row_data
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[12], line 1
----> 1 for row in column_data:
      2     row_data = row.find_all('td')
      3     individual_row_data = [data.text.strip() for data in row_data]

NameError: name 'column_data' is not defined
```

In [26]: *# error due to an empty row in the individual\_row\_data in the begining*

```
In [32]: for row in column_data[1:]:
          row_data = row.find_all('td')
          individual_row_data = [data.text.strip() for data in row_data]

          length = len(df)
          df.loc[length] = individual_row_data
```

In [33]: df

Out[33]:

	Rank	Name	Industry	Revenue (USD millions)	Revenue growth	Employees	Headquarters
<b>length</b>	100	Qualcomm	Technology	44,200	31.7%	51,000	San Diego, California
<b>1</b>	1	Walmart	Retail	611,289	6.7%	2,100,000	Bentonville, Arkansas
<b>2</b>	2	Amazon	Retail and cloud computing	513,983	9.4%	1,540,000	Seattle, Washington
<b>3</b>	3	ExxonMobil	Petroleum industry	413,680	44.8%	62,000	Spring, Texas
<b>4</b>	4	Apple	Electronics industry	394,328	7.8%	164,000	Cupertino, California
...	...	...	...	...	...	...	...
<b>96</b>	96	Best Buy	Retail	46,298	10.6%	71,100	Richfield, Minnesota
<b>97</b>	97	Bristol- Myers Squibb	Pharmaceutical industry	46,159	0.5%	34,300	New York City, New York
<b>98</b>	98	United Airlines	Airline	44,955	82.5%	92,795	Chicago, Illinois
<b>99</b>	99	Thermo Fisher Scientific	Laboratory instruments	44,915	14.5%	130,000	Waltham, Massachusetts
<b>100</b>	100	Qualcomm	Technology	44,200	31.7%	51,000	San Diego, California

101 rows × 7 columns

In [34]: df.to\_csv(r'C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Boot Camp\F

```
In [36]: # to remove index from the data  
df.to_csv(r'C:\Users\kallzz\Desktop\Data Analytics Stuff\Data Analyst - Boot Camp\F
```

```
In [ ]:
```