

Week 6: Requests, BeautifulSoup, and API

Requests and BeautifulSoup

The requests library is the de facto standard for making HTTP request in Python. It abstracts the complexities of making requests behind a beautiful, simple API so that you can focus on interacting with services and consuming data in your application.

```
In [66]: import requests
```

Example 1: SEC EDGAR

We will be processing financial statements from the SEC. The SEC provides a database that allows you to access every single filing of listed companies in HTML format.

<https://www.sec.gov/edgar/searchedgar/companysearch.html>

Although you can apply these methods to any web page, we will concentrate on processing accounting and finance data.

Not all the filings are easily processed. There will be variations between companies. Therefore it will take **trial and error** to receive the information that you want to receive.

The example below is more of an overview.

Before we begin

Often time when you are requesting data from the internet using a program, the website knows that it is a program that is making a request.

One way to "act like a human" in your program is to change the request header.

The usual request header when it is unchanged from a python program is like this:

Accept-Encoding identity

User-Agent Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36

```
In [67]: # Changing the header of the request
headers = {'User-Agent': 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.102 Safari/537.36'}

print (headers)
```

```
{'User-Agent': 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/50.0.2661.102 Safari/537.36'}
```

There are many ways for websites to check if the request is from a human, but based on the HTTP headers, the only setting that really matters is the User-Agent.

There are many settings within the header that you can further explore such as the Accept-Language header where you can possibly get the website in a different language.

```
In [68]: # We will be using the following URL.

url = 'https://www.sec.gov/Archives/edgar/data/1318605/000162828025003063/000162828025003063.pdf'

response = requests.get(url, headers=headers)

# Make up an error URL
errorurl = 'https://www.amazon.com/404'

# Will be used later as an example
error_response = requests.get(errorurl, headers=headers)
```

```
In [69]: print (response)
```

<Response [403]>

```
In [70]: # The Error 404 "Page not found" is the error page displayed whenever someone tries to access a page that does not exist.
# The reason for this is that there may be a link on your site that was wrong.
# As there is no web page to display, the web server sends a page that simply says "Page not found".
print (error_response)
```

<Response [404]>

```
In [71]: type(response)
```

```
Out[71]: requests.models.Response
```

```
In [72]: response.status_code
```

```
Out[72]: 403
```

```
In [73]: error_response.status_code
```

Out[73]: 404

So with this status code information you can create an error check, so that when you are going through a list of urls you will know which ones are not valid.

```
In [74]: if response.status_code == 200:
          print('Success!')
          elif response.status_code == 404:
              print('Not Found')
```

```
In [75]: if error_response.status_code ==200:
          print('Success!')
          elif error_response.status_code == 404:
              print('Not Found')
```

Not Found

But if you noticed earlier, when we printed response we already got a 200 code because it was sucessful.

```
In [76]: if response:
          print('Success!')
          else:
              print('An error has occurred.')
```

An error has occurred.

```
In [77]: if error_response:
          print('Success!')
          else:
              print('An error has occurred.')
```

An error has occurred.

Now that we know that the response request was successful we can view the payload or the body of the request.

```
In [78]: #This allows you to view the raw bytes(b').
          response.content
```

Out[78]: b'<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">\n<html xmlns="http://www.w3.org/1999/xhtml">\n<head>\n<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />\n<title>SEC.gov | Request Rate Threshold Exceeded</title>\n<style>\nhtml {height: 100%}\nbody {height: 100%; margin:0; padding:0;}\n#header {background-color:#003968; color:#fff; padding:15px 20px 10px 20px;font-family:Arial, Helvetica, sans-serif; font-size:20px; border-bottom:solid 5px #000;}\n#footer {background-color:#003968; color:#fff; padding:15px 20px;font-family:Arial, Helvetica, sans-serif; font-size:20px;}\n#content {max-width:650px;margin:60px auto; padding:0 20px 100px 20px; background-image:url(seal_bw.png);background-repeat:no-repeat;background-position:50% 100%;}\nh1 {font-family:Georgia, Times, serif; font-size:20px;}\nh2 {text-align:center; font-family:Georgia, Times, serif; font-size:20px; width:100%; border-bottom:solid #999 1px;padding-bottom:10px; margin-bottom:20px;}\nh3 {font-family:Georgia, Times, serif; font-size:16px; margin:25px 0 0 0;}\np {font-family:Verdana, Geneva, sans-serif;font-size:14px;line-height:1.3;}\n.grey_box {background-color:#eee; padding:5px 40px 20px 40px;margin-top:75px;}\n.grey_box p {font-size:12px;line-height:1.5}\n.note {padding: 0 40px; font-style: italic;}\n</style>\n</head>\n<\n<body>\n<div id="header">U.S. Securities and Exchange Commission</div>\n<div id="content">\n<h1>Your Request Originates from an Undeclared Automated Tool</h1>\n<p>To allow for equitable access to all users, SEC reserves the right to limit requests originating from undeclared automated tools. Your request has been identified as part of a network of automated tools outside of the acceptable policy and will be managed until action is taken to declare your traffic.</p>\n\n<p>Please declare your traffic by updating your user agent to include company specific information.</p>\n\n\n<p>For best practices on efficiently downloading information from SEC.gov, including the latest EDGAR filings, visit sec.gov/developer. You can also sign up for email updates on the SEC open data program, including best practices that make it more efficient to download data, and SEC.gov enhancements that may impact scripted downloading processes. For more information, contact opendata@sec.gov.</p>\n\n<p>For more information, please see the SEC's Web Site Privacy and Security Policy. Thank you for your interest in the U.S. Securities and Exchange Commission.\n<p>Reference ID: 0.24d82317.1741740850.6c0a47f</p>\n<div class="grey_box">\n<h2>More Information</h2>\n<h3>Internet Security Policy</h3>\n\n<p>By using this site, you are agreeing to security monitoring and auditing. For security purposes, and to ensure that the public service remains available to users, this government computer system employs programs to monitor network traffic to identify unauthorized attempts to upload or change information or to otherwise cause damage, including attempts to deny service to users.</p>\n\n<p>Unauthorized attempts to upload information and/or change information on any portion of this site are strictly prohibited and are subject to prosecution under the Computer Fraud and Abuse Act of 1986 and the National Information Infrastructure Protection Act of 1996 (see Title 18 U.S.C. \xc2\xa7\xc2\xa7 1001 and 1030).</p>\n\n<p>To ensure our website performs well for all users, the SEC monitors the frequency of requests for SEC.gov content to ensure automated searches do not impact the ability of others to access SEC.gov content. We reserve the right to block IP addresses that submit excessive requests. Current guidelines limit users to a total of no more than 10 requests per second, regardless of the number of machines used to submit requests. </p>\n\n<p>If a user or application submits more than 10 requests per second, further requests from th

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In [79]: *#Often you want to convert it into text encoding*
response.text

Out[79]: '<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">\n<html xmlns="http://www.w3.org/1999/xhtml">\n<head>\n<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />\n<title>SEC.gov | Request Rate Threshold Exceeded</title>\n<style>\nhtml {height: 100%}\nbody {height: 100%; margin:0; padding:0;}\n#header {background-color:#003968; color:#fff; padding:15px 20px 10px 20px;font-family:Arial, Helvetica, sans-serif; font-size:20px; border-bottom:solid 5px #000;}\n#footer {background-color:#003968; color:#fff; padding:15px 20px;font-family:Arial, Helvetica, sans-serif; font-size:20px;}\n#content {max-width:650px;margin:60px auto; padding:0 20px 100px 20px; background-image:url(seal_bw.png);background-repeat:no-repeat;background-position:50% 100%;}\nh1 {font-family:Georgia, Times, serif; font-size:20px;}\nh2 {text-align:center; font-family:Georgia, Times, serif; font-size:20px; width:100%; border-bottom:solid #999 1px;padding-bottom:10px; margin-bottom:20px;}\nh3 {font-family:Georgia, Times, serif; font-size:16px; margin:25px 0 0 0;}\np {font-family:Verdana, Geneva, sans-serif;font-size:14px;line-height:1.3;}\n.grey_box {background-color:#eee; padding:5px 40px 20px 40px;margin-top:75px;}\n.grey_box p {font-size:12px;line-height:1.5}\n.note {padding: 0 40px; font-style: italic;}\n</style>\n</head>\n<\n<body>\n<div id="header">U.S. Securities and Exchange Commission</div>\n<div id="content">\n<h1>Your Request Originates from an Undeclared Automated Tool</h1>\n<p>To allow for equitable access to all users, SEC reserves the right to limit requests originating from undeclared automated tools. Your request has been identified as part of a network of automated tools outside of the acceptable policy and will be managed until action is taken to declare your traffic.</p>\n\n<p>Please declare your traffic by updating your user agent to include company specific information.</p>\n\n\n<p>For best practices on efficiently downloading information from SEC.gov, including the latest EDGAR filings, visit sec.gov/developer. You can also sign up for email updates on the SEC open data program, including best practices that make it more efficient to download data, and SEC.gov enhancements that may impact scripted downloading processes. For more information, contact opendata@sec.gov.</p>\n\n<p>For more information, please see the SEC's Web Site Privacy and Security Policy. Thank you for your interest in the U.S. Securities and Exchange Commission.\n<p>Reference ID: 0.24d82317.1741740850.6c0a47f</p>\n<div class="grey_box">\n<h2>More Information</h2>\n<h3>Internet Security Policy</h3>\n\n<p>By using this site, you are agreeing to security monitoring and auditing. For security purposes, and to ensure that the public service remains available to users, this government computer system employs programs to monitor network traffic to identify unauthorized attempts to upload or change information or to otherwise cause damage, including attempts to deny service to users.</p>\n\n<p>Unauthorized attempts to upload information and/or change information on any portion of this site are strictly prohibited and are subject to prosecution under the Computer Fraud and Abuse Act of 1986 and the National Information Infrastructure Protection Act of 1996 (see Title 18 U.S.C. §§ 1001 and 1030).</p>\n\n<p>To ensure our website performs well for all users, the SEC monitors the frequency of requests for SEC.gov content to ensure automated searches do not impact the ability of others to access SEC.gov content. We reserve the right to block IP addresses that submit excessive requests. Current guidelines limit users to a total of no more than 10 requests per second, regardless of the number of machines used to submit requests. </p>\n\n<p>If a user or application submits more than 10 requests per second, further requests from the IP address(es)

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Below are some other useful methods that you could use.

```
In [80]: response.headers
```

```
Out[80]: {'Mime-Version': '1.0', 'Content-Length': '2177', 'Cache-Control': 'no-cache, no-store, must-revalidate', 'Pragma': 'no-cache', 'Expires': '0', 'Content-Type': 'text/html', 'Content-Encoding': 'gzip', 'Date': 'Wed, 12 Mar 2025 00:54:10 GMT', 'Connection': 'keep-alive', 'Vary': 'Accept-Encoding', 'Strict-Transport-Security': 'max-age=31536000 ; includeSubDomains ; preload'}
```

```
In [81]: #Now let's save the body to a file so we don't have to constantly request it
# This file appears in the same folder as this Jupyter file.
filename = 'Tesla_10K_20241231.html'
outputfile = open(filename, 'w', encoding = "utf-8")
outputfile.write(response.text)
outputfile.close()
```

Now that we have the file, let's process it using BeautifulSoup 4.

```
In [82]: from bs4 import BeautifulSoup
         #https://www.w3schools.com/html/html_intro.asp
```

```
In [83]: # Input the file that we just saved
inputfile = open(filename, 'r')
```

```
In [84]: soup = BeautifulSoup(inputfile)
         soup
```

```

Out[84]: <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.
w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta content="text/html; charset=utf-8" http-equiv="Content-Type"/>
<title>SEC.gov | Request Rate Threshold Exceeded</title>
<style>
html {height: 100%}
body {height: 100%; margin:0; padding:0;}
#header {background-color:#003968; color:#fff; padding:15px 20px 10px 20px;
font-family:Arial, Helvetica, sans-serif; font-size:20px; border-bottom:sol
id 5px #000;}
#footer {background-color:#003968; color:#fff; padding:15px 20px;font-famil
y:Arial, Helvetica, sans-serif; font-size:20px;}
#content {max-width:650px;margin:60px auto; padding:0 20px 100px 20px; back
ground-image:url(seal_bw.png);background-repeat:no-repeat;background-positi
on:50% 100%;}
h1 {font-family:Georgia, Times, serif; font-size:20px;}
h2 {text-align:center; font-family:Georgia, Times, serif; font-size:20px; w
idth:100%; border-bottom:solid #999 1px;padding-bottom:10px; margin-bottom:
20px;}
h3 {font-family:Georgia, Times, serif; font-size:16px; margin:25px 0 0 0;}
p {font-family:Verdana, Geneva, sans-serif;font-size:14px;line-height:1.3;}
.grey_box {background-color:#eee; padding:5px 40px 20px 40px;margin-top:75p
x;}
.grey_box p {font-size:12px;line-height:1.5}
.note {padding: 0 40px; font-style: italic;}
</style>
</head>
<body>
<div id="header">U.S. Securities and Exchange Commission</div>
<div id="content">
<h1>Your Request Originates from an Undeclared Automated Tool</h1>
<p>To allow for equitable access to all users, SEC reserves the right to li
mit requests originating from undeclared automated tools. Your request has
been identified as part of a network of automated tools outside of the acce
ptable policy and will be managed until action is taken to declare your tra
ffic.</p>
<p>Please declare your traffic by updating your user agent to include compa
ny specific information.</p>
<p>For best practices on efficiently downloading information from SEC.gov,
including the latest EDGAR filings, visit <a href="https://www.sec.gov/deve
loper" target="_blank">sec.gov/developer</a>. You can also <a href="http
s://public.govdelivery.com/accounts/USSEC/subscriber/new?topic_id=USSEC_26
0" target="_blank">sign up for email updates</a> on the SEC open data progr
am, including best practices that make it more efficient to download data,
and SEC.gov enhancements that may impact scripted downloading processes. Fo
r more information, contact <a href="mailto:opendata@sec.gov">opendata@sec.
gov</a>.</p>
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e Privacy and Security Policy</a>. Thank you for your interest in the U.S.
Securities and Exchange Commission.
<p>Reference ID: 0.24d82317.1741740850.6c0a47f</p>
<div class="grey_box">
<h2>More Information</h2>

```



```

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<p>Note that this policy may change as the SEC manages SEC.gov to ensure that the website performs efficiently and remains available to all users.</p>
</div>
<br/>
<p class="note"><b>Note:</b> We do not offer technical support for developing or debugging scripted downloading processes.</p>
</p></div>
</body>
</html>

```

```

In [85]: #Let's Clean up the HTML
print (soup.prettify())
# soup.prettify(): print in html tag level format--it looks very comfortable

```

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w
3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta content="text/html; charset=utf-8" http-equiv="Content-Type"/>
    <title>
      SEC.gov | Request Rate Threshold Exceeded
    </title>
    <style>
      html {height: 100%}
      body {height: 100%; margin:0; padding:0;}
      #header {background-color:#003968; color:#fff; padding:15px 20px 10px 20px;f
ont-family:Arial, Helvetica, sans-serif; font-size:20px; border-bottom:solid
5px #000;}
      #footer {background-color:#003968; color:#fff; padding:15px 20px;font-famil
y:Arial, Helvetica, sans-serif; font-size:20px;}
      #content {max-width:650px;margin:60px auto; padding:0 20px 100px 20px; backg
round-image:url(seal_bw.png);background-repeat:no-repeat;background-positio
n:50% 100%;}
      h1 {font-family:Georgia, Times, serif; font-size:20px;}
      h2 {text-align:center; font-family:Georgia, Times, serif; font-size:20px; wi
dth:100%; border-bottom:solid #999 1px;padding-bottom:10px; margin-bottom:20
px;}
      h3 {font-family:Georgia, Times, serif; font-size:16px; margin:25px 0 0 0;}
      p {font-family:Verdana, Geneva, sans-serif;font-size:14px;line-height:1.3;}
      .grey_box {background-color:#eee; padding:5px 40px 20px 40px;margin-top:75p
x;}
      .grey_box p {font-size:12px;line-height:1.5}
      .note {padding: 0 40px; font-style: italic;}
    </style>
  </head>
  <body>
    <div id="header">
      U.S. Securities and Exchange Commission
    </div>
    <div id="content">
      <h1>
        Your Request Originates from an Undeclared Automated Tool
      </h1>
      <p>
        To allow for equitable access to all users, SEC reserves the right to li
mit requests originating from undeclared automated tools. Your request has b
een identified as part of a network of automated tools outside of the accept
able policy and will be managed until action is taken to declare your traffi
c.
      </p>
      <p>
        Please declare your traffic by updating your user agent to include compa
ny specific information.
      </p>
      <p>
        For best practices on efficiently downloading information from SEC.gov,
including the latest EDGAR filings, visit
        <a href="https://www.sec.gov/developer" target="_blank">
          sec.gov/developer
        </a>
      </p>
    </div>
  </body>
</html>

```

. You can also

sign up for email updates

on the SEC open data program, including best practices that make it more efficient to download data, and SEC.gov enhancements that may impact scripted downloading processes. For more information, contact

opendata@sec.gov

.
</p>

<p>

For more information, please see the SEC's

Web Site Privacy and Security Policy

. Thank you for your interest in the U.S. Securities and Exchange Commission.

<p>

Reference ID: 0.24d82317.1741740850.6c0a47f

</p>

<div class="grey_box">

<h2>

More Information

</h2>

<h3>

Internet Security Policy

</h3>

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</p>

</div>

<p class="note">

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</p>

</p>

</div>

</body>

</html>

Now let's try to look at some methods in beautiful soup.

To use BeautifulSoup, you will have to understand the structure of an HTML file. The easiest structures to manipulate are usually well defined, but in the real world that is usually not the case.

That is why, when you are mining for data, it is often a case of trial and error.

You have to look for patterns that you could easily exploit and make rules for.

Using BeautifulSoup is perfect when the html follows the rules that are defined for HTML documents, but as stated before this isn't usually the case.

```
In [86]: # This will give you the title tag. We could use this for any of the tag pairs
soup.title
```

```
Out[86]: <title>SEC.gov | Request Rate Threshold Exceeded</title>
```

When you are navigating through the document, the simplest way is to use the tag as shown below, but the downside of this is that using the tag name will only give you the first tag by that name.

```
In [87]: soup.title.name
```

```
Out[87]: 'title'
```

```
In [88]: soup.title.parent.name
```

```
Out[88]: 'head'
```

```
In [89]: # <p> tag defines a paragraph.  
soup.p
```

```
Out[89]: <p>To allow for equitable access to all users, SEC reserves the right to li  
mit requests originating from undeclared automated tools. Your request has  
been identified as part of a network of automated tools outside of the acce  
ptable policy and will be managed until action is taken to declare your tra  
ffic.</p>
```

```
In [90]: # <a> tag defines a hyperlink, which is used to link from one page to another  
soup.a
```

```
Out[90]: <a href="https://www.sec.gov/developer" target="_blank">sec.gov/developer</  
a>
```

```
In [91]: soup.body
```

```
Out[91]: <body>
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<h2>More Information</h2>
<h3><a name="internet">Internet Security Policy</a></h3>
<p>By using this site, you are agreeing to security monitoring and auditing. For security purposes, and to ensure that the public service remains available to users, this government computer system employs programs to monitor network traffic to identify unauthorized attempts to upload or change information or to otherwise cause damage, including attempts to deny service to users.</p>
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<p>Note that this policy may change as the SEC manages SEC.gov to ensure that the website performs efficiently and remains available to all users.</p>
</div>
<br/>
<p class="note"><b>Note:</b> We do not offer technical support for developing or debugging scripted downloading processes.</p>
```

```
</p></div>  
</body>
```

```
In [92]: #List of the children are available in contents  
soup.body.contents
```

```

Out[92]: ['\n',
<div id="header">U.S. Securities and Exchange Commission</div>,
'\n',
<div id="content">
<h1>Your Request Originates from an Undeclared Automated Tool</h1>
<p>To allow for equitable access to all users, SEC reserves the right to limit requests originating from undeclared automated tools. Your request has been identified as part of a network of automated tools outside of the acceptable policy and will be managed until action is taken to declare your traffic.</p>
<p>Please declare your traffic by updating your user agent to include any specific information.</p>
<p>For best practices on efficiently downloading information from SEC.gov, including the latest EDGAR filings, visit <a href="https://www.sec.gov/developer" target="_blank">sec.gov/developer</a>. You can also <a href="https://public.govdelivery.com/accounts/USSEC/subscriber/new?topic_id=USSEC_260" target="_blank">sign up for email updates</a> on the SEC open data program, including best practices that make it more efficient to download data, and SEC.gov enhancements that may impact scripted downloading processes. For more information, contact <a href="mailto:opendata@sec.gov">opendata@sec.gov</a>.</p>
<p>For more information, please see the SEC's <a href="#internet">Web Site Privacy and Security Policy</a>. Thank you for your interest in the U.S. Securities and Exchange Commission.
<p>Reference ID: 0.24d82317.1741740850.6c0a47f</p>
<div class="grey_box">
<h2>More Information</h2>
<h3><a name="internet">Internet Security Policy</a></h3>
<p>By using this site, you are agreeing to security monitoring and auditing. For security purposes, and to ensure that the public service remains available to users, this government computer system employs programs to monitor network traffic to identify unauthorized attempts to upload or change information or to otherwise cause damage, including attempts to deny service to users.</p>
<p>Unauthorized attempts to upload information and/or change information on any portion of this site are strictly prohibited and are subject to prosecution under the Computer Fraud and Abuse Act of 1986 and the National Information Infrastructure Protection Act of 1996 (see Title 18 U.S.C. §§ 1001 and 1030).</p>
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>
</div>
<br/>

```



```
<p class="note"><b>Note:</b> We do not offer technical support for develop  
ing or debugging scripted downloading processes.</p>  
</p></div>,  
'\n']
```

```
In [93]: type(soup.body.contents)
```

```
Out[93]: list
```

In order to look for the other tags, you will have to use the `find_all`

```
In [94]: # Find all <a> tags  
anchor_tags = soup.find_all('a')
```

```
In [95]: anchor_tags[1]
```

```
Out[95]: <a href="https://public.govdelivery.com/accounts/USSEC/subscriber/new?topic  
_id=USSEC_260" target="_blank">sign up for email updates</a>
```

```
In [96]: anchor_tags[1].text
```

```
Out[96]: 'sign up for email updates'
```

```
In [97]: anchor_tags[3]
```

```
Out[97]: <a href="#internet">Web Site Privacy and Security Policy</a>
```

```
In [98]: anchor_tags[3]['href']
```

```
Out[98]: '#internet'
```

href:

(Hypertext REference) The HTML code used to create a link to another page. The HREF is an attribute of the anchor tag, which is also used to identify sections within a document. The HREF contains two components: the URL, which is the actual link, and the clickable text that appears on the page, called the "anchor text."

If you know the id or a specific href, you could use the `find` function.

```
In [99]: soup.find(href='#mda')
```

```
In [100]: # An HTML table consists of one <table> element and one or more <tr>, <th>,  
# The <tr> element defines a table row, the <th> element defines a table head  
# An HTML table may also include <caption>, <colgroup>, <thead>, <tfoot>, and
```

```
html_tables = soup.find_all('table')
```

```
In [101... html_tables
```

```
Out[101... []
```

```
In [102... soup.body
```

```
Out[102... <body>
<div id="header">U.S. Securities and Exchange Commission</div>
<div id="content">
<h1>Your Request Originates from an Undeclared Automated Tool</h1>
<p>To allow for equitable access to all users, SEC reserves the right to limit requests originating from undeclared automated tools. Your request has been identified as part of a network of automated tools outside of the acceptable policy and will be managed until action is taken to declare your traffic.</p>
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<p>For more information, please see the SEC's <a href="#internet">Web Site Privacy and Security Policy</a>. Thank you for your interest in the U.S. Securities and Exchange Commission.
<p>Reference ID: 0.24d82317.1741740850.6c0a47f</p>
<div class="grey_box">
<h2>More Information</h2>
<h3><a name="internet">Internet Security Policy</a></h3>
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</div>
<br/>
<p class="note"><b>Note:</b> We do not offer technical support for developing or debugging scripted downloading processes.</p>
```

```
</p></div>
</body>
```

```
In [103... soup.body.get_text()
```

```
Out[103... '\nU.S. Securities and Exchange Commission\n\nYour Request Originates from
an Undeclared Automated Tool\nTo allow for equitable access to all users, S
EC reserves the right to limit requests originating from undeclared automat
ed tools. Your request has been identified as part of a network of automate
d tools outside of the acceptable policy and will be managed until action i
s taken to declare your traffic.\nPlease declare your traffic by updating y
our user agent to include company specific information.\nFor best practices
on efficiently downloading information from SEC.gov, including the latest E
DGAR filings, visit sec.gov/developer. You can also sign up for email updat
es on the SEC open data program, including best practices that make it more
efficient to download data, and SEC.gov enhancements that may impact script
ed downloading processes. For more information, contact opendata@sec.gov.\n
For more information, please see the SEC's Web Site Privacy and Sec
urity Policy. Thank you for your interest in the U.S. Securities and Exchan
ge Commission.\nReference ID: 0.24d82317.1741740850.6c0a47f\n\nMore Informa
tion\nInternet Security Policy\nBy using this site, you are agreeing to sec
urity monitoring and auditing. For security purposes, and to ensure that th
e public service remains available to users, this government computer syste
m employs programs to monitor network traffic to identify unauthorized atte
mpts to upload or change information or to otherwise cause damage, includin
g attempts to deny service to users.\nUnauthorized attempts to upload infor
mation and/or change information on any portion of this site are strictly p
rohibited and are subject to prosecution under the Computer Fraud and Abuse
Act of 1986 and the National Information Infrastructure Protection Act of 1
996 (see Title 18 U.S.C. §§ 1001 and 1030).\nTo ensure our website perfor
ms well for all users, the SEC monitors the frequency of requests for SEC.g
ov content to ensure automated searches do not impact the ability of others
to access SEC.gov content. We reserve the right to block IP addresses that
submit excessive requests. Current guidelines limit users to a total of no
more than 10 requests per second, regardless of the number of machines used
to submit requests. \nIf a user or application submits more than 10 request
s per second, further requests from the IP address(es) may be limited for a
brief period. Once the rate of requests has dropped below the threshold for
10 minutes, the user may resume accessing content on SEC.gov. This SEC prac
tice is designed to limit excessive automated searches on SEC.gov and is no
t intended or expected to impact individuals browsing the SEC.gov website.
\nNote that this policy may change as the SEC manages SEC.gov to ensure tha
t the website performs efficiently and remains available to all users.\n\n
\nNote: We do not offer technical support for developing or debugging scrip
ted downloading processes.\n\n'
```

Example 2: S&P 500 List

As you can see it can be quite difficult to work with the SEC filings due to their nature. There is another skillset that is required when processing them, and that is Natural Language Processing and Regular expressions.

Let's try to extract data from something with more structure.

We will try to extract the list of stocks in the S&P 500. Sp500Wiki = https://en.wikipedia.org/wiki/List_of_S%26P_500_companies

```
In [104... Sp500Wiki = 'https://en.wikipedia.org/wiki/List_of_S%26P_500_companies'
```

```
In [105... #Let's grab the HTML just like above
```

```
spResponse = requests.get(Sp500Wiki, headers = headers)
```

```
In [106... #Let's do some error checking
```

```
if spResponse.status_code==200:  
    print('Success!')
```

```
else:  
    print('An error has occurred.')
```

Success!

```
In [107... #Let's save the file to our local directory so we don't have to keep request  
sp500filename = 'wikiSP500.html'
```

```
#Open the Stream
```

```
outputfile = open(sp500filename, 'w', encoding = "utf-8")
```

```
#Write to the file
```

```
outputfile.write(spResponse.text)
```

```
#Close the file
```

```
outputfile.close()
```

Are we ran into an encoding Error? You will run into quite often. So let's check.

```
In [108... spResponse.encoding
```

```
Out[108... 'UTF-8'
```

```
In [109... spResponse.encoding = 'utf-8'
```

```
In [110... #Open the Stream
```

```
outputfile = open(sp500filename, 'w', encoding="utf-8")
```

```
#Write to the file
```

```
outputfile.write(spResponse.text)
```

```
#Close the file
```

```
outputfile.close()
```

```
In [111... #Now file is saved, let's load it into soup, You can choose to load in from
```

```
#You could use the file if you do not have internet access to make the request  
soup = BeautifulSoup(spResponse.text)
```

So now let's take this opportunity to look at how the file is formatted.

What do you see?

You will notice that all the symbols are in a neat table so let's try.

In [112... `soup.table`

```

Out[112... <table class="wikitable sortable sticky-header" id="constituents">
<tbody><tr>
<th><a href="/wiki/Ticker_symbol" title="Ticker symbol">Symbol</a>
</th>
<th>Security</th>
<th><a href="/wiki/Global_Industry_Classification_Standard" title="Global I
ndustry Classification Standard">GICS</a> Sector</th>
<th>GICS Sub-Industry</th>
<th>Headquarters Location</th>
<th>Date added</th>
<th><a href="/wiki/Central_Index_Key" title="Central Index Key">CIK</a></th>
>
<th>Founded
</th></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:MMM" rel
="nofollow">MMM</a>
</td>
<td><a href="/wiki/3M" title="3M">3M</a></td>
<td>Industrials</td>
<td>Industrial Conglomerates</td>
<td><a href="/wiki/Saint_Paul,_Minnesota" title="Saint Paul, Minnesota">Sai
nt Paul, Minnesota</a></td>
<td>1957-03-04</td>
<td>0000066740</td>
<td>1902
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:AOS" rel
="nofollow">AOS</a>
</td>
<td><a href="/wiki/A._O._Smith" title="A. O. Smith">A. O. Smith</a></td>
<td>Industrials</td>
<td>Building Products</td>
<td><a class="mw-redirect" href="/wiki/Milwaukee,_Wisconsin" title="Milwauk
ee, Wisconsin">Milwaukee, Wisconsin</a></td>
<td>2017-07-26</td>
<td>0000091142</td>
<td>1916
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:ABT" rel
="nofollow">ABT</a>
</td>
<td><a href="/wiki/Abbott_Laboratories" title="Abbott Laboratories">Abbott
Laboratories</a></td>
<td>Health Care</td>
<td>Health Care Equipment</td>
<td><a href="/wiki/North_Chicago,_Illinois" title="North Chicago, Illinoi
s">North Chicago, Illinois</a></td>
<td>1957-03-04</td>
<td>0000001800</td>
<td>1888
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:ABBV" re

```

l="nofollow">ABBV	
AbbVie</td>	
Health Care</td>	
Biotechnology</td>	
North Chicago, Illinois</td>	
2012-12-31</td>	
0001551152</td>	
2013 (1888)	
<a >acn<="" a="" a><="" class="external text" href="https://www.nyse.com/quote/XNYS:ACN" rel="nofollow"> 	
Accenture</td>	
Information Technology</td>	
IT Consulting & Other Services</td>	
Dublin, Ireland</td>	
2011-07-06</td>	
0001467373</td>	
1989	
<a >adbe<="" a="" a><="" class="external text" href="https://www.nasdaq.com/market-activity/stocks/adbe" rel="nofollow"> 	
Adobe Inc.</td>	
Information Technology</td>	
Application Software</td>	
San Jose, California</td>	
1997-05-05</td>	
0000796343</td>	
1982	
<a >amd<="" a="" a><="" class="external text" href="https://www.nasdaq.com/market-activity/stocks/amd" rel="nofollow"> 	
Advanced Micro Devices</td>	
Information Technology</td>	
Semiconductors</td>	
Santa Clara, California</td>	
2017-03-20</td>	
0000002488</td>	
1969	
<a >aes<="" a="" a><="" class="external text" href="https://www.nyse.com/quote/XNYS:AES" rel="nofollow"> 	
AES Corporation</td>	

<td>Utilities</td>
<td>Independent Power Producers & Energy Traders</td>
<td>Arlington, Virginia</td>
<td>1998-10-02</td>
<td>0000874761</td>
<td>1981
</td></tr>
<tr>
<td>AFL
</td>
<td>Aflac</td>
<td>Financials</td>
<td>Life & Health Insurance</td>
<td>Columbus, Georgia</td>
<td>1999-05-28</td>
<td>0000004977</td>
<td>1955
</td></tr>
<tr>
<td>A
</td>
<td>Agilent Technologies</td>
<td>Health Care</td>
<td>Life Sciences Tools & Services</td>
<td>Santa Clara, California</td>
<td>2000-06-05</td>
<td>0001090872</td>
<td>1999
</td></tr>
<tr>
<td>APD
</td>
<td>Air Products</td>
<td>Materials</td>
<td>Industrial Gases</td>
<td>Upper Macungie Township, Pennsylvania</td>
<td>1985-04-30</td>
<td>0000002969</td>
<td>1940
</td></tr>
<tr>
<td>ABNB
</td>
<td>Airbnb</td>
<td>Consumer Discretionary</td>
<td>Hotels, Resorts & Cruise Lines</td>
<td><a class="mw-redirect" href="/wiki/San_Francisco,_California" title="Sa

n Francisco, California">San Francisco, California</td>	
<td>2023-09-18</td>	
<td>0001559720</td>	
<td>2008	
</td></tr>	
<td><a class="external text" href="https://www.nasdaq.com/market-activity/s	
tocks/akam" rel="nofollow">AKAM	
</td>	
<td>Akamai	
Technologies</td>	
<td>Information Technology</td>	
<td>Internet Services & Infrastructure</td>	
<td><a href="/wiki/Cambridge,_Massachusetts" title="Cambridge, Massachusett	
s">Cambridge, Massachusetts</td>	
<td>2007-07-12</td>	
<td>0001086222</td>	
<td>1998	
</td></tr>	
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:ALB" rel	
="nofollow">ALB	
</td>	
<td>Alb	
emarle Corporation</td>	
<td>Materials</td>	
<td>Specialty Chemicals</td>	
<td><a href="/wiki/Charlotte,_North_Carolina" title="Charlotte, North Carol	
ina">Charlotte, North Carolina</td>	
<td>2016-07-01</td>	
<td>0000915913</td>	
<td>1994	
</td></tr>	
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:ARE" rel	
="nofollow">ARE	
</td>	
<td><a href="/wiki/Alexandria_Real_Estate_Equities" title="Alexandria Real	
Estate Equities">Alexandria Real Estate Equities</td>	
<td>Real Estate</td>	
<td>Office REITs</td>	
<td>Pasad	
ena, California</td>	
<td>2017-03-20</td>	
<td>0001035443</td>	
<td>1994	
</td></tr>	
<td><a class="external text" href="https://www.nasdaq.com/market-activity/s	
tocks/align" rel="nofollow">ALGN	
</td>	
<td>Align Technol	
ogy</td>	
<td>Health Care</td>	
<td>Health Care Supplies</td>	
<td>Tempe, Arizona	

></td>
<td>2017-06-19</td>
<td>0001097149</td>
<td>1997
</td></tr>
<tr>
<td>ALLE
</td>
<td>Allegion</td>
<td>Industrials</td>
<td>Building Products</td>
<td>Dublin, Ireland</td>
<td>2013-12-02</td>
<td>0001579241</td>
<td>1908
</td></tr>
<tr>
<td>LNT
</td>
<td>Alliant Energy</td>
<td>Utilities</td>
<td>Electric Utilities</td>
<td>Madison, Wisconsin</td>
<td>2016-07-01</td>
<td>0000352541</td>
<td>1917
</td></tr>
<tr>
<td>ALL
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<td>Allstate</td>
<td>Financials</td>
<td>Property & Casualty Insurance</td>
<td>Northbrook, Illinois</td>
<td>1995-07-13</td>
<td>0000899051</td>
<td>1931
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<td>2014-04-03</td>

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<td>Alphabet Inc. (Class C)</td>
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<td>Mountain View, California</td>
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<td>0001652044</td>
<td>1998</td></tr>
<td>M0</td>
<td>Altria</td>
<td>Consumer Staples</td>
<td>Tobacco</td>
<td>Richmond, Virginia</td>
<td>1957-03-04</td>
<td>0000764180</td>
<td>1985</td></tr>
<td>AMZN</td>
<td>Amazon</td>
<td>Consumer Discretionary</td>
<td>Broadline Retail</td>
<td>Seattle, Washington</td>
<td>2005-11-18</td>
<td>0001018724</td>
<td>1994</td></tr>
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<td>Amcor</td>
<td>Materials</td>
<td>Paper & Plastic Packaging Products & Materials</td>
<td>Warmley, Bristol, United Kingdom</td>
<td>2019-06-07</td>
<td>0001748790</td>
<td>2019 (1860)

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</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:AEE" rel="nofollow">AEE</a>
</td>
<td><a href="/wiki/Ameren" title="Ameren">Ameren</a></td>
<td>Utilities</td>
<td>Multi-Utilities</td>
<td><a class="mw-redirect" href="/wiki/St._Louis,_Missouri" title="St. Louis, Missouri">St. Louis, Missouri</a></td>
<td>1991-09-19</td>
<td>0001002910</td>
<td>1902
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</td>
<td><a href="/wiki/American_Electric_Power" title="American Electric Power">American Electric Power</a></td>
<td>Utilities</td>
<td>Electric Utilities</td>
<td><a href="/wiki/Columbus,_Ohio" title="Columbus, Ohio">Columbus, Ohio</a></td>
<td>1957-03-04</td>
<td>0000004904</td>
<td>1906
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<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:AXP" rel="nofollow">AXP</a>
</td>
<td><a href="/wiki/American_Express" title="American Express">American Express</a></td>
<td>Financials</td>
<td>Consumer Finance</td>
<td><a class="mw-redirect" href="/wiki/New_York_City,_New_York" title="New York City, New York">New York City, New York</a></td>
<td>1976-06-30</td>
<td>0000004962</td>
<td>1850
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:AIG" rel="nofollow">AIG</a>
</td>
<td><a href="/wiki/American_International_Group" title="American International Group">American International Group</a></td>
<td>Financials</td>
<td>Multi-line Insurance</td>
<td><a class="mw-redirect" href="/wiki/New_York_City,_New_York" title="New York City, New York">New York City, New York</a></td>
<td>1980-03-31</td>
<td>0000005272</td>
<td>1919
</td></tr>

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AMT	American Tower	Real Estate	Telecom Tower REITs	Boston, Massachusetts	2007-11-19	0001053507	1995
AWK	American Water Works	Utilities	Water Utilities	Camden, New Jersey	2016-03-04	0001410636	1886
AMP	Ameriprise Financial	Financials	Asset Management & Custody Banks	Minneapolis, Minnesota	2005-10-03	0000820027	1894
AME	Ametek	Industrials	Electrical Components & Equipment	Berwyn, Pennsylvania	2013-09-23	0001037868	1930

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	APTV Aptiv Consumer Discretionary Automotive Parts & Equipment Dublin, Ireland 2012-12-24 0001521332
1994	
	ACGL Arch Capital Group Financials Property & Casualty Insurance Hamilton, Bermuda 2022-11-01 0000947484 1995
1995	
	ADM Archer Daniels Midland Consumer Staples Agricultural Products & Services Chicago, Illinois 1957-03-04

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	Omaha, Nebraska
2010-02-16	
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1839	
	BBY
	Best Buy
	Consumer Discretionary
	Computer & Electronics Retail
	Richfield, Minnesota
1999-06-29	
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1966	
	TECH
	Bio-Techne
	Health Care
	Life Sciences Tools & Services
	Minneapolis, Minnesota
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1996			
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C0F	Capital One	Financials	Consumer Finance	Tysons Corner, Virginia	1998-07-01	0000927628	1994
CAH	Cardinal Health	Health Care	Health Care Distributors	Dublin, Ohio	1997-05-27	0000721371	1971
KMX	CarMax	Consumer Discretionary	Automotive Retail	Richmond, Virginia	2010-06-28	0001170010	1993
CCL	Carnival Corporation & plc	Consumer Discretionary	Hotels, Resorts & Cruise Lines	Miami, Florida	1998-12-22	0000815097	1972
CARR							

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Technology Distributors	
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1984	
CE	
Celanese	
Materials	
Specialty Chemicals	
Irving, Texas	
2018-12-24	
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1918	
COR	
Cencora	
Health Care	
Health Care Distributors	
Conshohocken, Pennsylvania	
2001-08-30	
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1985	
CNC	
Centene Corporation	
Health Care	
Managed Health Care	
St. Louis, Missouri	
2016-03-30	
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1984	
CNP	
CenterPoi	

nt Energy
Utilities
Multi-Utilities
Houston, Texas
1985-07-31
0001130310
1882

CF
CF Industries
Materials
Fertilizers & Agricultural Chemicals
Deerfield, Illinois
2008-08-27
0001324404
1946

CRL
Charles River Laboratories
Health Care
Life Sciences Tools & Services
Wilmington, Massachusetts
2021-05-14
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1947

SCHW
Charles Schwab Corporation
Financials
Investment Banking & Brokerage
Westlake, Texas
1997-06-02
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1971

CHTR
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Harter Communications	
Communication Services	
Cable & Satellite	
Stamford, Connecticut	
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1993	
CVX	
Chevron Corporation	
Energy	
Integrated Oil & Gas	
San Ramon, California	
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1879	
CMG	
Chipotle Mexican Grill	
Consumer Discretionary	
Restaurants	
Newport Beach, California	
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0001058090	
1993	
CB	
Chubb Limited	
Financials	
Property & Casualty Insurance	
Zurich, Switzerland	
2010-07-15	
0000896159	
1985	
CHD	
Church &	

mp; Dwight	Consumer Staples	Household Products	Ewing, New Jersey	2015-12-29	0000313927	1847
			CI			
	Cigna	Health Care	Health Care Services	Bloomfield, Connecticut	1976-06-30	0001739940
						1982
	CINF	Cincinnati Financial	Financials	Property & Casualty Insurance	Fairfield, Ohio	1997-12-18
						0000020286
						1950
	CTAS	Cintas	Industrials	Diversified Support Services	Mason, Ohio	2001-03-01
						0000723254
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	CSCO	Cisco	Information Technology	Communications Equipment		

San J ose, California	1993-12-01	0000858877	1984
C			
Citigroup	Financials	Diversified Banks	New York City, New York
1988-05-31	0000831001	1998	
CFG			
Citizens Financial Group	Financials	Regional Banks	Providence, Rhode Island
2016-01-29	0000759944	1828	
CLX			
Clorox	Consumer Staples	Household Products	Oaklan d, California
1969-03-31	0000021076	1913	
CME			
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CTVA	Corteva	Indianapolis, Indiana	2019-06-03	0001755672	2019
CSGP	CoStar Group	Washington, D.C.	2022-09-19	0001057352	1987
COST					

Costco	Consumer Staples	Consumer Staples Merchandise Retail	Issaquah, Washington	1993-10-01	0000909832	1976
CTRA						
Coterra	Energy	Oil & Gas Exploration & Production	Houston, Texas	2008-06-23	0000858470	2021 (1989)
CRWD			CrowdStrike			
			Information Technology			
			Systems Software			
Austin, Texas				2024-06-24	0001535527	2011
CCI						
Crown Castle						
Houston, Texas				2012-03-14	0001051470	1994
CSX			CSX Corporation			
			Industrials			
			Rail Transportation			

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DELL	Dell Technologies
Information Technology	Technology Hardware, Storage & Peripherals
Round Rock, Texas	
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2016	
DAL	Delta Air Lines
Industrials	Passenger Airlines
Atlanta, Georgia	
2013-09-11	
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1929	
DVN	Devon Energy
Energy	Oil & Gas Exploration & Production
Oklahoma City, Oklahoma	
2000-08-30	
0001090012	
1971	
DXCM	Dexcom
Health Care	Health Care Equipment
San Diego, California	
2020-05-12	
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1999	

FANG	Diamondback Energy	Oil & Gas Exploration & Production	Midland, Texas	2018-12-03	0001539838	2007
DLR	Digital Realty	Real Estate	Austin, Texas	2016-05-18	0001297996	2004
DFS	Discover Financial	Financials	Riverwoods, Illinois	2007-07-02	0001393612	1985
DG	Dollar General	Consumer Staples	Goodlettsville, Tennessee	2012-12-03	0000029534	1939

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DOW	Dow Inc.	Materials	Commodity Chemicals	Midland, Michigan	2019-04-01	0001751788	2019 (1897)
DHI	D. R. Horton	Consumer Discretionary	Homebuilding	Arlington, Texas	2005-06-22	0000882184	1978
DTE	DTE Energy	Utilities	Multi-Utilities	Detroit, Michigan	1957-03-04	0000936340	1995
DUK	Duke Energy	Utilities	Electric Utilities	Charlotte, North Carolina	1976-06-30	0001326160	1904
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Utilities	Electric Utilities	Rosemead, California	1957-03-04	0000827052	1886
		EW			
	Edwards Lifesciences				
Health Care	Health Care Equipment	Irvine, California	2011-04-01	0001099800	1958
		EA			
	Electronic Arts				
Communication Services	Interactive Home Entertainment	Redwood City, California	2002-07-22	0000712515	1982
		ELV			
	Elevance Health				

Health Care	Managed Health Care	Indianapolis, Indiana	2002-07-25	0001156039
2014 (1946)				
	EMR	Emerson Electric	Industrials	Electrical Components & Equipment
	Ferguson, Missouri	1965-03-31	0000032604	1890
	ENPH	Enphase Energy	Information Technology	Semiconductor Materials & Equipment
	Fremont, California	2021-01-07	0001463101	2006
	ETR	Entergy	Utilities	Electric Utilities
	New Orleans, Louisiana	1957-03-04	0000065984	1913
	E0G	E0G Resources		

Energy	Oil & Gas Exploration & Production	Houston, Texas	2000-11-02	0000821189	1999
	EPAM				
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	Information Technology				
	IT Consulting & Other Services				
	Newtown, Bucks County, Pennsylvania				
			2021-12-14	0001352010	1993
	EQT				
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	Oil & Gas Exploration & Production				
	Pittsburgh, Pennsylvania				
			2022-10-03	0000033213	1888
	EFX				
		Equifax			
	Industrials				
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	Atlanta, Georgia				
			1997-06-19	0000033185	1899
	EQIX				
		Equinix			
	Real Estate				
	Data Center REITs				
	Redwood City, California				

Redwood City, California	2015-03-20	0001101239	1998
Equity Residential	Real Estate	Multi-Family Residential REITs	Chicago, Illinois
2001-12-03	0000906107	1969	Erie Insurance Group
Erie, Pennsylvania	2024-09-23	0000922621	1925
Essex Property Trust	Real Estate	Multi-Family Residential REITs	San Mateo, California
2014-04-02	0000920522	1971	The Estée Lauder Companies
Consumer Staples	Personal Care Products	New York City, New York	

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FFIV	
F5, Inc.	
Information Technology	
Communications Equipment	
Seattle, Washington	
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FDS	
FactSet	
Financials	
Financial Exchanges & Data	
Norwalk, Connecticut	
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1978	
FIC0	
Fair Isaac	
Information Technology	
Application Software	
Bozeman, Montana	
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1956	
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Winona, Minnesota	
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Consumer Discretionary	Automobile Manufacturers	Dearborn, Michigan	1957-03-04	0000037996	1903
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			2018-10-11	0001262039	2000
	FTV	Fortive	Industrials	Industrial Machinery & Supplies & Components	Everett, Washington
			2016-07-01	0001659166	2016
	FOXA	Fox Corporation	(Class A)	Communication Services	Broadcasting
			New York City, New York	2019-03-04	0001754301
					2019
	FOX	Fox Corporation	(Class B)	Communication Services	

Broadcasting	New York City, New York	2019-03-04	0001754301
2019			
	BEN		
	Franklin Resources		
Financials			
Asset Management & Custody Banks			
San Mateo, California			
1998-04-30			
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1947			
	FCX		
	Freeport-McMoRan		
Materials			
Copper			
Phoenix, Arizona			
2011-07-01			
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1912			
	GRMN		
	Garmin		
Consumer Discretionary			
Consumer Electronics			
Schaffhausen, Switzerland			
2012-12-12			
0001121788			
1989			
	IT		
	Gartner		
Information Technology			
IT Consulting & Other Services			

Stamford, Connecticut	2017-04-05	0000749251	1979
GE			
GE Aerospace	Industrials	Aerospace & Defense	Evendale, Ohio
	1957-03-04	0000040545	1892
GEHC			
GE HealthCare	Health Care	Health Care Equipment	Chicago, Illinois
	2023-01-04	0001932393	1994
GEV			
GE Vernova	Industrials	Heavy Electrical Equipment	Cambridge, Massachusetts
	2024-04-02	0001996810	2024
GEN			
Gen Digital	Information Technology	Systems Software	Tempe, Arizona
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HAS	Hasbro	Consumer Discretionary	Leisure Products	Pawtucket, Rhode Island	1984-09-30	0000046080	1923
HCA	HCA Healthcare	Health Care	Health Care Facilities	Nashville, Tennessee	2015-01-27	0000860730	1968
DOC	Healthpeak Properties	Real Estate	Health Care REITs	Denver, Colorado	2008-03-31	0000765880	1985
HSIC	Henry Schein	Health Care	Health Care Distributors	Melville, New York	2015-03-17	0001000228	1932
HSY							

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Louisville, Kentucky	2012-12-10	0000049071	1961
HBAN			
Huntington Bancshares			
Financials			
Regional Banks			
Columbus, Ohio ; Detroit, Michigan	1997-08-28	0000049196	1866
HII			
Huntington Ingalls Industries			
Industrials			
Aerospace & Defense			
Newport News, Virginia	2018-01-03	0001501585	2011
IBM			
IBM			
Information Technology			
IT Consulting & Other Services			
Armonk, New York	1957-03-04	0000051143	1911
IEX			
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Industrials			
Industrial Machinery & Supplies & Components			

Lake Forest, Illinois	2019-08-09	0000832101	1988
IDXX			
Idexx Laboratories			
Health Care			
Health Care Equipment			
Westbrook, Maine	2017-01-05	0000874716	1983
ITW			
Illinois Tool Works			
Industrials			
Industrial Machinery & Supplies & Components			
Glenview, Illinois	1986-02-28	0000049826	1912
INCY			
Incyte			
Health Care			
Biotechnology			
Wilmington, Delaware	2017-02-28	0000879169	1991
IR			
Ingersoll Rand			
Industrials			
Industrial Machinery & Supplies & Components			
Davidson, North Carolina			

Davidson, North Carolina	2020-03-03	0001699150	1859
PODD	Insulet Corporation	Health Care	Health Care Equipment
Acton, Massachusetts	2023-03-15	0001145197	2000
INTC	Intel	Information Technology	Semiconductors
Santa Clara, California	1976-12-31	0000050863	1968
ICE	Intercontinental Exchange	Financials	Financial Exchanges & Data
Atlanta, Georgia	2007-09-26	0001571949	2000
IFF	International Flavors & Fragrances	Materials	

Specialty Chemicals	New York City, New York	1976-03-31	0000051253	1958 (1889)
	IP			
	International Paper			
Materials				
Paper & Plastic Packaging Products & Materials				
Memphis, Tennessee		1957-03-04	0000051434	1898
	IPG			
Interpublic Group of Companies (The)				
Communication Services				
Advertising				
New York City, New York		1992-10-01	0000051644	1961 (1930)
INTU				
Intuit				
Information Technology				
Application Software				
Mountain View, California		2000-12-05	0000896878	1983
ISRG				
Intuitive Surgical				
Health Care				
Health Care Equipment				

Sunnyvale, California	2008-06-02	0001035267	1995
IVZ			
Invesco			
Financials			
Asset Management & Custody Banks			
Atlanta, Georgia			
2008-08-21			
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1935			
INVH			
Invitation Homes			
Real Estate			
Single-Family Residential REITs			
Dallas, Texas			
2022-09-19			
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2012			
IQV			
IQVIA			
Health Care			
Life Sciences Tools & Services			
Durham, North Carolina			
2017-08-29			
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1982			
IRM			
Iron Mountain			
Real Estate			
Other Specialized REITs			
Boston, Massachusetts			

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LIN	Linde plc	Materials	Industrial Gases	Guildford, United Kingdom	1992-07-01	0001707925	1879
LYV	Live Nation Entertainment	Communication Services	Movies & Entertainment	Beverly Hills, California	2019-12-23	0001335258	2010
LKQ	LKQ Corporation	Consumer Discretionary	Distributors	Chicago, Illinois	2016-05-23	0001065696	1998

LMT	Lockheed Martin	Industrials	Aerospace & Defense	Bethesda, Maryland	1957-03-04	0000936468	1995
L	Loews Corporation	Financials	Multi-line Insurance	New York City, New York	1995-05-31	0000060086	1959
LOW	Lowe's	Consumer Discretionary	Home Improvement Retail	Mooresville, North Carolina	1984-02-29	0000060667	1904/1946/1959
LULU	Lululemon Athletica	Consumer Discretionary	Apparel, Accessories & Luxury Goods	Vancouver, Canada	2023-10-18	0001397187	1998

LYB	LyondellBasell	Materials	Specialty Chemicals	Rotterdam, Netherlands	2012-09-05	0001489393	2007
MTB	M&T Bank	Financials	Regional Banks	Buffalo, New York	2004-02-23	0000036270	1856
MPC	Marathon Petroleum	Energy	Oil & Gas Refining & Marketing	Findlay, Ohio	2011-07-01	0001510295	2009 (1887)
MKTX	MarketAxess	Financials	Financial Exchanges & Data	New York City, New York	2019-07-01	0001278021	2000

MAR	Marriott International	Consumer Discretionary	Hotels, Resorts & Cruise Lines	Bethesda, Maryland	1998-05-29	0001048286	1927
MMC	Marsh McLennan	Financials	Insurance Brokers	New York City, New York	1987-08-31	0000062709	1905
MLM	Martin Marietta Materials	Materials	Construction Materials	Raleigh, North Carolina	2014-07-02	0000916076	1993
MAS	Masco	Industrials	Building Products	Livonia, Michigan	1981-06-30	0000062996	1929

MA	Mastercard	Financials	Transaction & Payment Processing Services	Harrison, New York	2008-07-18	0001141391	1966
MTCH	Match Group	Communication Services	Interactive Media & Services	Dallas, Texas	2021-09-20	0000891103	1986
MKC	McCormick & Company	Consumer Staples	Packaged Foods & Meats	Hunt Valley, Maryland	2003-03-20	0000063754	1889
MCD	McDonald's	Consumer Discretionary	Restaurants	Chicago, Illinois	1970-06-30	0000063908	1940
MCK							

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Health Care					
Life Sciences Tools & Services					
Columbus, Ohio					
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MGM Resorts					
Consumer Discretionary					
Casinos & Gaming					
Paradise, Nevada					
2017-07-26					
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MCHP					
Micro chip Technology					
Information Technology					
Semiconductors					
Chandler, Arizona					
2007-09-07					
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MU					
Micron Tech					

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Boise, Idaho			
1994-09-27			
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1978			
MSFT			
Microsoft			
Information Technology			
Systems Software			
Redmond, Washington			
1994-06-01			
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1975			
MAA			
Mid-America Apartment Communities			
Real Estate			
Multi-Family Residential REITs			
Memphis, Tennessee			
2016-12-02			
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1977			
MRNA			
Moderna			
Health Care			
Biotechnology			
Cambridge, Massachusetts			
2021-07-21			
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2010			
MHK			
Mohawk Industries			
Consumer Discretionary			
Home Furnishings			

Calhoun, Georgia	2013-12-23	0000851968	1878
MOH			
Molina Healthcare			
Health Care	Managed Health Care		
Long Beach, California	2022-03-02	0001179929	1980
TAP			
Molson Coors Beverage Company			
Consumer Staples	Brewers		
Chicago, Illinois	1976-06-30	0000024545	
2005 (Molson 1786, Coors 1873)			
MDLZ			
Mondelez International			
Consumer Staples	Packaged Foods & Meats		
Chicago, Illinois	2012-10-02	0001103982	2012
MPWR			
Monolithic Power Systems			
Information Technology			

Semiconductors	Kirkland, Washington	2021-02-12	0001280452	1997
	MNST			
	Monster Beverage			
Consumer Staples	Soft Drinks & Non-alcoholic Beverages	Corona, California	2012-06-28	0000865752
			2012 (1935)	
	MCO			
	Moody's Corporation			
Financials	Financial Exchanges & Data	New York City, New York	1998-07-01	0001059556
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	MS			
	Morgan Stanley			
Financials	Investment Banking & Brokerage	New York City, New York	1993-07-29	0000895421
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	MOS			
	Mosaic Company (The)			
	Materials			

Fertilizers & Agricultural Chemicals	Tampa, Florida
2011-09-26	0001285785
2004 (1865 / 1909)	
MSI	Motorola Solutions
Information Technology	Communications Equipment
Chicago, Illinois	1957-03-04
0000068505	1928 (2011)
MSCI	MSCI
Financials	Financial Exchanges & Data
New York City, New York	2018-04-04
0001408198	1969
NDAQ	Nasdaq, Inc.
Financials	Financial Exchanges & Data
New York City, New York	2008-10-22
0001120193	1971
NTAP	NetApp
Information Technology	

Technology Hardware, Storage & Peripherals	San Jose, California	1999-06-25	0001002047	1992
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NFLX	Netflix	Communication Services	Movies & Entertainment	Los Gatos, California	2010-12-20	0001065280	1997
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NEM	Newmont	Materials	Gold	Denver, Colorado	1969-06-30	0001164727	1921
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NWSA	News Corp (Class A)	Communication Services	Publishing	New York City, New York	2013-08-01	0001564708	2013 (News Corporation 1980)
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NWS	News Corp (Class B)	Communication Services	Publishing
--	---	------------------------	------------

New York City, New York	2015-09-18	0001564708	2013 (News Corporation 1980)
NEE			
NextEra Energy			
Utilities			
Multi-Utilities			
Juno Beach, Florida			
1976-06-30		0000753308	
1984 (1925)			
NKE			
Nike, Inc.			
Consumer Discretionary			
Apparel, Accessories & Luxury Goods			
Washington County, Oregon			
1988-11-30		0000320187	
1964			
NI			
NiSource			
Utilities			
Multi-Utilities			
Merrillville, Indiana			
2000-11-02		0001111711	
1912			
NDSN			
Nordson Corporation			
Industrials			
Industrial Machinery & Supplies & Components			

Westlake, Ohio	2022-02-15	0000072331	1935
NSC			
Norfolk Southern Railway			
Industrials			
Rail Transportation			
Atlanta, Georgia			
1957-03-04			
0000702165			
1881/1894 (1980)			
NTRS			
Northern Trust			
Financials			
Asset Management & Custody Banks			
Chicago, Illinois			
1998-01-30			
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1889			
NOC			
Northrop Grumman			
Industrials			
Aerospace & Defense			
West Falls Church, Virginia			
1957-03-04			
0001133421			
1994 (Northrop 1939, Grumman 1930)			
NCLH			
Norwegian Cruise Line Holdings			
Consumer Discretionary			
Hotels, Resorts & Cruise Lines			

Miami, Florida	2017-10-13	0001513761	2011 (1966)
NRG			
NRG Energy			
Utilities			
Independent Power Producers & Energy Traders			
Houston, Texas	2010-01-29	0001013871	1992
NUE			
Nucor			
Materials			
Steel			
Charlotte, North Carolina	1985-04-30	0000073309	1940
NVDA			
Nvidia			
Information Technology			
Semiconductors			
Santa Clara, California	2001-11-30	0001045810	1993
NVR			
NVR, Inc.			
Consumer Discretionary			
Homebuilding			
Reston, Virginia	2019-09-26	0000906163	

1980	
NXPI	NXP Semiconductors
Information Technology	Semiconductors
Eindhoven, Netherlands	
2021-03-22	
0001413447	
1953	
ORLY	0'Reilly Auto Parts
Consumer Discretionary	Automotive Retail
Springfield, Missouri	
2009-03-27	
0000898173	
1957	
OXY	Occidental Petroleum
Energy	Oil & Gas Exploration & Production
Houston, Texas	
1957-03-04	
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1920	
ODFL	Old Dominion Freight Line
Industrials	Cargo Ground Transportation
Thomasville, North Carolina	
2019-12-09	
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1934	
OMC	
Omnicom Group	
Communication Services	
Advertising	
New York City, New York	
1997-12-31	
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1986	
ON	
ON Semiconductor	
Information Technology	
Semiconductors	
Phoenix, Arizona	
2022-06-21	
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1999	
OKE	
ONEOK	
Energy	
Oil & Gas Storage & Transportation	
Tulsa, Oklahoma	
2010-03-15	
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1906	
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Information Technology	
Application Software	
Austin, Texas	
1989-08-31	
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1977	

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PCG	PG&E	Utilities	Multi-Utilities	Oakland, California	2022-10-03	0001004980	1905
PM	Philip Morris International	Consumer Staples	Tobacco	New York City, New York	2008-03-31	0001413329	2008 (1847)
PSX	Phillips 66	Energy	Oil & Gas Refining & Marketing	Houston, Texas	2012-05-01	0001534701	2012 (1917)
PNW							

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PRU	Prudential Financial	Financials	Life & Health Insurance	Newark, New Jersey	2002-07-22	0001137774	1875
PEG	Public Service Enterprise Group	Utilities	Electric Utilities	Newark, New Jersey	1957-03-04	0000788784	1903
PTC	PTC Inc.	Information Technology	Application Software	Boston, Massachusetts	2021-04-20	0000857005	1985

PSA	
Public Storage	
Real Estate	
Self-Storage REITs	
Glendale, California	
2005-08-19	
0001393311	
1972	

PHM	
PulteGroup	
Consumer Discretionary	
Homebuilding	
Atlanta, Georgia	
1984-04-30	
0000822416	
1956	

PWR	
Quanta Services	
Industrials	
Construction & Engineering	
Houston, Texas	
2009-07-01	
0001050915	
1997	

QCOM	
Qualcomm	
Information Technology	
Semiconductors	
San Diego, California	
1999-07-22	
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1985	

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Salesforce
Information Technology
Application Software
San Francisco, California
2008-09-15
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SBAC
SBA Communications
Real Estate
Telecom Tower REITs
Boca Raton, Florida
2017-09-01
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SLB
Schlumberger
Energy
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Solventum	
Health Care	
Health Care Technology	
Saint Paul, Minnesota	
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Southern Company	
Utilities	
Electric Utilities	
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LUV	
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Passenger Airlines	
Dallas, Texas	
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Stanley Black & Decker	
Industrials	
Industrial Machinery & Supplies & Components	

New Britain, Connecticut	1982-09-30	0000093556	1843
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Starbucks	Consumer Discretionary	Restaurants	
Seattle, Washington	2000-06-07	0000829224	1971
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State Street Corporation	Financials	Asset Management & Custody Banks	
Boston, Massachusetts	2003-03-14	0000093751	1792
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Steel Dynamics	Materials	Steel	
Fort Wayne, Indiana	2022-12-22	0001022671	1993
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	TMUS
	T-Mobile US
	Communication Services
	Wireless Telecommunication Services
	Bellevue, Washington
2019-07-15	
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	TTWO
	Take-Two Interactive
	Communication Services
	Interactive Home Entertainment
	New York City, New York
2018-03-19	
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1993	

TPR	Tapestry, Inc.	Consumer Discretionary	Apparel, Accessories & Luxury Goods	New York City, New York	2004-09-01	0001116132	2017
TRGP	Targa Resources	Energy	Oil & Gas Storage & Transportation	Houston, Texas	2022-10-12	0001389170	2005
TGT	Target Corporation	Consumer Staples	Consumer Staples Merchandise Retail	Minneapolis, Minnesota	1976-12-31	0000027419	1902
TEL	TE Connectivity	Information Technology	Electronic Manufacturing Services	Galway, Ireland	2011-10-17	0001385157	

2007	
TDY	Teledyne Technologies
Information Technology	Electronic Equipment & Instruments
Thousand Oaks, California	
2020-06-22	
0001094285	
1960	
TFX	Teleflex
Health Care	Health Care Equipment
Wayne, Pennsylvania	
2019-01-18	
0000096943	
1943	
TER	Teradyne
Information Technology	Semiconductor Materials & Equipment
North Reading, Massachusetts	
2020-09-21	
0000097210	
1960	
TSLA	Tesla, Inc.
Consumer Discretionary	Automobile Manufacturers
Austin, Texas	
2020-12-21	
0001318605	
2003	

TXN	Texas Instruments	Information Technology	Semiconductors	Dallas, Texas	2001-03-12	0000097476	1930
TPL	Texas Pacific Land Corporation	Energy	Oil & Gas Exploration & Production	Dallas, Texas	2024-11-26	0001811074	1888
TXT	Textron	Industrials	Aerospace & Defense	Providence, Rhode Island	1978-12-31	0000217346	1923
TM0	Thermo Fisher Scientific	Health Care	Life Sciences Tools & Services	Waltham, Massachusetts	2004-08-03	0000097745	2006 (1902)

TJX	TJX Companies	Consumer Discretionary	Apparel Retail	Framingham, Massachusetts	1985-09-30	0000109198	1987
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TSCO	Tractor Supply	Consumer Discretionary	Other Specialty Retail	Brentwood, Tennessee	2014-01-24	0000916365	1938
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TT	Trane Technologies	Industrials	Building Products	Dublin, Ireland	2010-11-17	0001466258	1871
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TDG	TransDigm Group	Industrials	Aerospace & Defense	Cleveland, Ohio	2016-06-03	0001260221	
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TRV	Travelers Companies (The)
Financials	Property & Casualty Insurance
New York City, New York	
2002-08-21	
0000086312	
1853	
TRMB	Trimble Inc.
Information Technology	Electronic Equipment & Instruments
Westminster, Colorado	
2021-01-21	
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1978	
TFC	Truist Financial
Financials	Diversified Banks
Charlotte, North Carolina	
1997-12-04	
0000092230	
1872	
TYL	Tyler Technologies
Information Technology	Application Software
Plano, Texas	
2020-06-22	
0000860731	
1966	

TSN	Tyson Foods	Consumer Staples	Packaged Foods & Meats	Springdale, Arkansas	2005-08-10	0000100493	1935
USB	U.S. Bancorp	Financials	Diversified Banks	Minneapolis, Minnesota	1999-11-01	0000036104	1968
UBER	Uber	Industrials	Passenger Ground Transportation	San Francisco, California	2023-12-18	0001543151	2009
UDR	UDR, Inc.	Real Estate	Multi-Family Residential REITs	Highlands Ranch, Colorado	2016-03-07	0000074208	1972
ULTA							

Ulta Beauty					
Consumer Discretionary					
Other Specialty Retail					
Bolingbrook, Illinois					
2016-04-18					
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1990					
UNP					
Union Pacific Corporation					
Industrials					
Rail Transportation					
Omaha, Nebraska					
1957-03-04					
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UAL					
United Airlines Holdings					
Industrials					
Passenger Airlines					
Chicago, Illinois					
2015-09-03					
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1967					
UPS					
United Parcel Service					
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Air Freight & Logistics					
Sandy Springs, Georgia					
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New York City, New York	
1983-11-30	
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1983 (1877)	
VRTX	
Vertex Pharmaceuticals	
Health Care	
Biotechnology	
Boston, Massachusetts	
2013-09-23	
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VTRS	
Viatris	
Health Care	
Pharmaceuticals	
Pittsburgh, Pennsylvania	
2004-04-23	
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1961	
VICI	
Vici Properties	
Real Estate	
Hotel & Resort REITs	
New York City, New York	
2022-06-08	
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2017	
V	
Visa Inc.	
Financials	
Transaction & Payment Processing Services	

San Francisco, California	2009-12-21	0001403161	1958
VST			
Vistra Corp			
Utilities			
Electric Utilities			
Irving, Texas			
2024-05-08			
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2016			
VMC			
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Materials			
Construction Materials			
Birmingham, Alabama			
1999-06-30			
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W. R. Berkley Corporation			
Financials			
Property & Casualty Insurance			
Greenwich, Connecticut			
2019-12-05			
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1967			
GWW			
W. W. Grainger			
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Lake Forest, Illinois			

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<td>Electric Utilities</td>
<td>Milwaukee, Wisconsin</td>

<td>2008-10-31</td>
<td>0000783325</td>
<td>1896</td></tr>
<td>WFC</td>
<td>Wells Fargo</td>
<td>Financials</td>
<td>Diversified Banks</td>
<td>San Francisco, California</td>
<td>1976-06-30</td>
<td>0000072971</td>
<td>1852</td></tr>
<td>WELL</td>
<td>Welltower</td>
<td>Real Estate</td>
<td>Health Care REITs</td>
<td>Toledo, Ohio</td>
<td>2009-01-30</td>
<td>0000766704</td>
<td>1970</td></tr>
<td>WST</td>
<td>West Pharmaceutical Services</td>
<td>Health Care</td>
<td>Health Care Supplies</td>
<td>Exton, Pennsylvania</td>
<td>2020-05-22</td>
<td>0000105770</td>
<td>1923</td></tr>
<td>WDC</td>
<td>Western Digital</td>
<td>Information Technology</td>
<td>Technology Hardware, Storage & Peripherals</td>
<td>San J

```

ose, California</a></td>
<td>2009-07-01</td>
<td>0000106040
</td>
<td>1970
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:WY" rel
="nofollow">WY</a>
</td>
<td><a href="/wiki/Weyerhaeuser" title="Weyerhaeuser">Weyerhaeuser</a></td>
<td>Real Estate</td>
<td>Timber REITs</td>
<td><a class="mw-redirect" href="/wiki/Seattle,_Washington" title="Seattle,
Washington">Seattle, Washington</a></td>
<td>1979-10-01</td>
<td>0000106535</td>
<td>1900
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:WMB" rel
="nofollow">WMB</a>
</td>
<td><a href="/wiki/Williams_Companies" title="Williams Companies">Williams
Companies</a></td>
<td>Energy</td>
<td>Oil & Gas Storage & Transportation</td>
<td><a href="/wiki/Tulsa,_Oklahoma" title="Tulsa, Oklahoma">Tulsa, Oklahoma
</a></td>
<td>1975-03-31</td>
<td>0000107263
</td>
<td>1908
</td></tr>
<tr>
<td><a class="external text" href="https://www.nasdaq.com/market-activity/s
tocks/wtw" rel="nofollow">WTW</a>
</td>
<td><a href="/wiki/Willis_Towers_Watson" title="Willis Towers Watson">Willi
s Towers Watson</a></td>
<td>Financials</td>
<td>Insurance Brokers</td>
<td><a href="/wiki/London" title="London">London, United Kingdom</a></td>
<td>2016-01-05</td>
<td>0001140536
</td>
<td>2016
</td></tr>
<tr>
<td><a class="external text" href="https://www.nasdaq.com/market-activity/s
tocks/wday" rel="nofollow">WDAY</a>
</td>
<td><a href="/wiki/Workday,_Inc." title="Workday, Inc.">Workday, Inc.</a></
td>
<td>Information Technology</td>
<td>Application Software</td>

```


Pleasanton, California				
2024-12-23				
0001327811				
2005				
WYNN				
Wynn Resorts				
Consumer Discretionary				
Casinos & Gaming				
Paradise, Nevada				
2008-11-14				
0001174922				
2002				
XEL				
Xcel Energy				
Utilities				
Multi-Utilities				
Minneapolis, Minnesota				
1957-03-04				
0000072903				
1909				
XYL				
Xylem Inc.				
Industrials				
Industrial Machinery & Supplies & Components				
White Plains, New York				
2011-11-01				
0001524472				
2011				
YUM				
Yum! Brands				
Consumer Discretionary				
Restaurants				
Louisville, Kentucky				
1997-10-06				

```

<td>0001041061
</td>
<td>1997
</td></tr>
<tr>
<td><a class="external text" href="https://www.nasdaq.com/market-activity/s
tocks/zbra" rel="nofollow">ZBRA</a>
</td>
<td><a href="/wiki/Zebra_Technologies" title="Zebra Technologies">Zebra Tec
hnologies</a></td>
<td>Information Technology</td>
<td>Electronic Equipment & Instruments</td>
<td><a href="/wiki/Lincolnshire,_Illinois" title="Lincolnshire, Illinois">L
incolnshire, Illinois</a></td>
<td>2019-12-23</td>
<td>0000877212
</td>
<td>1969
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:ZBH" rel
="nofollow">ZBH</a>
</td>
<td><a href="/wiki/Zimmer_Biomet" title="Zimmer Biomet">Zimmer Biomet</a></
td>
<td>Health Care</td>
<td>Health Care Equipment</td>
<td><a href="/wiki/Warsaw,_Indiana" title="Warsaw, Indiana">Warsaw, Indiana
</a></td>
<td>2001-08-07</td>
<td>0001136869
</td>
<td>1927
</td></tr>
<tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:ZTS" rel
="nofollow">ZTS</a>
</td>
<td><a href="/wiki/Zoetis" title="Zoetis">Zoetis</a></td>
<td>Health Care</td>
<td>Pharmaceuticals</td>
<td><a class="mw-redirect" href="/wiki/Parsippany,_New_Jersey" title="Parsi
ppany, New Jersey">Parsippany, New Jersey</a></td>
<td>2013-06-21</td>
<td>0001555280</td>
<td>1952
</td></tr></tbody></table>

```

In [113... soup.tr

```
Out[113... <tr>
<th><a href="/wiki/Ticker_symbol" title="Ticker symbol">Symbol</a>
</th>
<th>Security</th>
<th><a href="/wiki/Global_Industry_Classification_Standard" title="Global I
ndustry Classification Standard">GICS</a> Sector</th>
<th>GICS Sub-Industry</th>
<th>Headquarters Location</th>
<th>Date added</th>
<th><a href="/wiki/Central_Index_Key" title="Central Index Key">CIK</a></th>
>
<th>Founded
</th></tr>
```

```
In [114... rows = soup.find_all('tr')
```

```
In [115... #What do you see below?
rows[1]
```

```
Out[115... <tr>
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:MMM" rel
="nofollow">MMM</a>
</td>
<td><a href="/wiki/3M" title="3M">3M</a></td>
<td>Industrials</td>
<td>Industrial Conglomerates</td>
<td><a href="/wiki/Saint_Paul,_Minnesota" title="Saint Paul, Minnesota">Sai
nt Paul, Minnesota</a></td>
<td>1957-03-04</td>
<td>0000066740</td>
<td>1902
</td></tr>
```

```
In [116... #So you notice that symbol is the first element between the td so you try be
rows[1].td
```

```
Out[116... <td><a class="external text" href="https://www.nyse.com/quote/XNYS:MMM" rel
="nofollow">MMM</a>
</td>
```

```
In [117... #So now you see that it is between anchor tags, so try
rows[1].td.a
```

```
Out[117... <a class="external text" href="https://www.nyse.com/quote/XNYS:MMM" rel="no
follow">MMM</a>
```

```
In [118... #Now you want the text between the tags
rows[1].td.a.text
```

```
Out[118... 'MMM'
```

So now you can do it for 1 of the stocks in the S&P500, so how would you get them into a list?

```
In [119... #Let's initialize a list first  
sp500Stocks = []
```

```
In [120... #Let's check the size of the rows list.  
len(rows)
```

```
Out[120... 863
```

```
In [121... rows[623]
```

```
Out[121... <tr>  
<td>December 24, 2018</td>  
<td>CE</td>  
<td><a href="/wiki/Celanese" title="Celanese">Celanese</a></td>  
<td>ESRX</td>  
<td><a href="/wiki/Express_Scripts" title="Express Scripts">Express Scripts  
</a></td>  
<td>S&amp;P 500 constituent Cigna (NYSE: CI) acquired ESRX<sup class="refer  
ence" id="cite_ref-79"><a href="#cite_note-79"><span class="cite-bracket">  
[</span>79<span class="cite-bracket">]</span></a></sup>  
</td></tr>
```

That doesn't seem right why are there more than 500 rows? So look at the data again.

There are two tables in the html so you have to be more specific with your find all.

```
In [122... sp500_rows = soup.table.find_all('tr')
```

```
In [123... len(sp500_rows)
```

```
Out[123... 504
```

```
In [124... #That seems a little better, let's see why we have 504 elements  
sp500_rows[503]
```

```
Out[124... <tr>  
<td><a class="external text" href="https://www.nyse.com/quote/XNYS:ZTS" rel  
="nofollow">ZTS</a>  
</td>  
<td><a href="/wiki/Zoetis" title="Zoetis">Zoetis</a></td>  
<td>Health Care</td>  
<td>Pharmaceuticals</td>  
<td><a class="mw-redirect" href="/wiki/Parsippany,_New_Jersey" title="Parsi  
ppany, New Jersey">Parsippany, New Jersey</a></td>  
<td>2013-06-21</td>  
<td>0001555280</td>  
<td>1952  
</td></tr>
```

```
In [125... #let's try to extract what we can
```

```
for row in sp500_rows:
    if row.td == None:
        continue
    else:
        print (row.td.a.text)
        sp500Stocks.append(row.td.a.text)
```

MMM
AOS
ABT
ABBV
ACN
ADBE
AMD
AES
AFL
A
APD
ABNB
AKAM
ALB
ARE
ALGN
ALLE
LNT
ALL
GOOGL
GOOG
MO
AMZN
AMCR
AEE
AEP
AXP
AIG
AMT
AWK
AMP
AME
AMGN
APH
ADI
ANSS
AON
APA
APO
AAPL
AMAT
APTV
ACGL
ADM
ANET
AJG
AIZ
T
ATO
ADSK
ADP
AZO
AVB
AVY
AXON
BKR

BALL
BAC
BAX
BDX
BRK.B
BBY
TECH
BIIB
BLK
BX
BK
BA
BKNG
BWA
BSX
BMY
AVGO
BR
BRO
BF.B
BLDR
BG
BXP
CHRW
CDNS
CZR
CPT
CPB
COF
CAH
KMX
CCL
CARR
CAT
CBOE
CBRE
CDW
CE
COR
CNC
CNP
CF
CRL
SCHW
CHTR
CVX
CMG
CB
CHD
CI
CINF
CTAS
CSCO
C
CFG
CLX

CME
CMS
KO
CTSH
CL
CMCSA
CAG
COP
ED
STZ
CEG
COO
CPRT
GLW
CPAY
CTVA
CSGP
COST
CTRA
CRWD
CCI
CSX
CMI
CVS
DHR
DRI
DVA
DAY
DECK
DE
DELL
DAL
DVN
DXCM
FANG
DLR
DFS
DG
DLTR
D
DPZ
DOV
DOW
DHI
DTE
DUK
DD
EMN
ETN
EBAY
ECL
EIX
EW
EA
ELV
EMR

ENPH
ETR
EOG
EPAM
EQT
EFX
EQIX
EQR
ERIE
ESS
EL
EG
EVRG
ES
EXC
EXPE
EXPD
EXR
XOM
FFIV
FDS
FICO
FAST
FRT
FDX
FIS
FITB
FSLR
FE
FI
FMC
F
FTNT
FTV
FOXA
FOX
BEN
FCX
GRMN
IT
GE
GEHC
GEV
GEN
GNRC
GD
GIS
GM
GPC
GILD
GPN
GL
GDDY
GS
HAL
HIG

HAS
HCA
DOC
HSIC
HSY
HES
HPE
HLT
HOLX
HD
HON
HRL
HST
HWM
HPQ
HUBB
HUM
HBAN
HII
IBM
IEX
IDXX
ITW
INCY
IR
PODD
INTC
ICE
IFF
IP
IPG
INTU
ISRG
IVZ
INVH
IQV
IRM
JBHT
JBL
JKHY
J
JNJ
JCI
JPM
JNPR
K
KVUE
KDP
KEY
KEYS
KMB
KIM
KMI
KKR
KLAC
KHC

KR
LHX
LH
LRCX
LW
LVS
LDOS
LEN
LII
LLY
LIN
LYV
LKQ
LMT
L
LOW
LULU
LYB
MTB
MPC
MKTX
MAR
MMC
MLM
MAS
MA
MTCH
MKC
MCD
MCK
MDT
MRK
META
MET
MTD
MGM
MCHP
MU
MSFT
MAA
MRNA
MHK
MOH
TAP
MDLZ
MPWR
MNST
MCO
MS
MOS
MSI
MSCI
NDAQ
NTAP
NFLX
NEM

NWSA
NWS
NEE
NKE
NI
NDSN
NSC
NTRS
NOC
NCLH
NRG
NUE
NVDA
NVR
NXPI
ORLY
OXY
ODFL
OMC
ON
OKE
ORCL
OTIS
PCAR
PKG
PLTR
PANW
PARA
PH
PAYX
PAYC
PYPL
PNR
PEP
PFE
PCG
PM
PSX
PNW
PNC
POOL
PPG
PPL
PFG
PG
PGR
PLD
PRU
PEG
PTC
PSA
PHM
PWR
QCOM
DGX
RL

RJF
RTX
0
REG
REGN
RF
RSG
RMD
RVTY
ROK
ROL
ROP
ROST
RCL
SPGI
CRM
SBAC
SLB
STX
SRE
NOW
SHW
SPG
SWKS
SJM
SW
SNA
SOLV
SO
LUV
SWK
SBUX
STT
STLD
STE
SYK
SMCI
SYF
SNPS
SYY
TMUS
TROW
TTWO
TPR
TRGP
TGT
TEL
TDY
TFX
TER
TSLA
TXN
TPL
TXT
TMO
TJX

TSCO
TT
TDG
TRV
TRMB
TFC
TYL
TSN
USB
UBER
UDR
ULTA
UNP
UAL
UPS
URI
UNH
UHS
VLO
VTR
VLTO
VRSN
VRSK
VZ
VRTX
VTRS
VICI
V
VST
VMC
WRB
GWW
WAB
WBA
WMT
DIS
WBD
WM
WAT
WEC
WFC
WELL
WST
WDC
WY
WMB
WTW
WDAY
WYNN
XEL
XYL
YUM
ZBRA
ZBH
ZTS

```
In [126... len(sp500Stocks)
```

```
Out[126... 503
```

Despite being referred to as “500,” there are actually 503 listed stocks because a methodology change can lead to more companies having multiple listings in the index due to multiple share classes. For instance, Google’s parent company Alphabet has Class A and Class C shares.

Today, the S&P 500 index covers approximately 80 percent of available market capitalization (or the total dollar market value of all listed firms’ outstanding shares).

Using APIs with Python

Many times there is a library written out that allows you to easily connect to an API. There are libraries for Bloomberg API and many others available for you to install.

We will be utilizing a free stock data API known as AlphaVantage.

Please take the time to sign up at [alphaVantage](https://www.alphavantage.co/) to get your API key below.

<https://www.alphavantage.co/>

We will be utilizing the wrapper https://github.com/RomelTorres/alpha_vantage

please install with `pip install alpha_vantage`

Example 1: AlphaVantage

```
In [127... %pip install alpha_vantage
```

Requirement already satisfied: alpha_vantage in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (3.0.0)

Requirement already satisfied: aiohttp in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from alpha_vantage) (3.11.13)

Requirement already satisfied: requests in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from alpha_vantage) (2.32.3)

Requirement already satisfied: aiohappyeyeballs>=2.3.0 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from aiohttp->alpha_vantage) (2.4.8)

Requirement already satisfied: aiosignal>=1.1.2 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from aiohttp->alpha_vantage) (1.3.2)

Requirement already satisfied: attrs>=17.3.0 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from aiohttp->alpha_vantage) (25.1.0)

Requirement already satisfied: frozenlist>=1.1.1 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from aiohttp->alpha_vantage) (1.5.0)

Requirement already satisfied: multidict<7.0,>=4.5 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from aiohttp->alpha_vantage) (6.1.0)

Requirement already satisfied: propcache>=0.2.0 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from aiohttp->alpha_vantage) (0.3.0)

Requirement already satisfied: yarl<2.0,>=1.17.0 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from aiohttp->alpha_vantage) (1.18.3)

Requirement already satisfied: charset-normalizer<4,>=2 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from requests->alpha_vantage) (3.4.1)

Requirement already satisfied: idna<4,>=2.5 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from requests->alpha_vantage) (3.10)

Requirement already satisfied: urllib3<3,>=1.21.1 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from requests->alpha_vantage) (2.3.0)

Requirement already satisfied: certifi>=2017.4.17 in /Library/Frameworks/Python.framework/Versions/3.13/lib/python3.13/site-packages (from requests->alpha_vantage) (2025.1.31)

[notice] A new release of pip is available: 24.2 -> 25.0.1

[notice] To update, run: `pip3 install --upgrade pip`

Note: you may need to restart the kernel to use updated packages.

```
In [128... #So let's import the library in which we will be using the timeseries module

from alpha_vantage.timeseries import TimeSeries

ts = TimeSeries(key='HNQ62X7XN1BICIIA', output_format='pandas')
data = ts.get_intraday(symbol='DIA', outputsize='full') # DIA: Dow Jones Inc
# outputsize='compact' requests data for last 100 days, and outputsize='full'

# The adjusted closing price amends a stock's closing price to reflect that
# any corporate actions, such as stock splits, dividends, and rights offerin
```


In [129... data

```
Out[129... (
    1. open  2. high  3. low  4. close  5. volume
    date
    2025-03-10 20:00:00 419.4900 419.4900 419.4900 419.4900 58803.0
    2025-03-10 19:45:00 419.3100 419.7100 419.3100 419.5750 10862.0
    2025-03-10 19:30:00 419.0600 419.3400 418.5300 419.3400 6451.0
    2025-03-10 19:15:00 419.5000 419.5400 418.8300 419.2900 5133.0
    2025-03-10 19:00:00 419.7000 419.7999 419.3900 419.4000 7233.0
    ...
    2025-02-10 05:00:00 443.8265 443.8765 443.7466 443.7466 76.0
    2025-02-10 04:45:00 443.6867 443.6867 443.6867 443.6867 5.0
    2025-02-10 04:30:00 443.7766 443.7866 443.7267 443.7367 159.0
    2025-02-10 04:15:00 443.6967 443.7766 443.6967 443.7766 33.0
    2025-02-10 04:00:00 443.0277 443.6468 443.0277 443.6468 446.0

    [1281 rows x 5 columns],
    {'1. Information': 'Intraday (15min) open, high, low, close prices and volume',
     '2. Symbol': 'DIA',
     '3. Last Refreshed': '2025-03-10 20:00:00',
     '4. Interval': '15min',
     '5. Output Size': 'Full size',
     '6. Time Zone': 'US/Eastern'})
```

```
In [130... data, meta_data = ts.get_intraday(symbol='MSFT',interval='1min', outputsize=
# meta data: a set of data that describes and gives information about other
# There are two parts in the API response: "Meta Data" and "Time Series"
# The library is mapping meta_data to "Meta Data" and "Time Series" to data
```

In [131... data.head()

```
Out[131...
    1. open  2. high  3. low  4. close  5. volume
    date
    2025-03-10 19:59:00 377.5900 377.90 377.0000 377.4500 2790.0
    2025-03-10 19:58:00 377.9702 377.98 377.5900 377.7600 849.0
    2025-03-10 19:57:00 377.9900 377.99 377.5000 377.9702 215.0
    2025-03-10 19:56:00 377.5600 377.99 377.5000 377.9900 988.0
    2025-03-10 19:55:00 377.9900 377.99 377.3172 377.5100 133.0
```

In [132... meta_data

```
Out[132... {'1. Information': 'Intraday (1min) open, high, low, close prices and volume',
            '2. Symbol': 'MSFT',
            '3. Last Refreshed': '2025-03-10 19:59:00',
            '4. Interval': '1min',
            '5. Output Size': 'Full size',
            '6. Time Zone': 'US/Eastern'}
```

```
In [133... data, meta_data
```

```
Out[133... (
    1. open  2. high  3. low  4. close  5. volume
    date
    2025-03-10 19:59:00 377.5900 377.9000 377.0000 377.4500 2790.0
    2025-03-10 19:58:00 377.9702 377.9800 377.5900 377.7600 849.0
    2025-03-10 19:57:00 377.9900 377.9900 377.5000 377.9702 215.0
    2025-03-10 19:56:00 377.5600 377.9900 377.5000 377.9900 988.0
    2025-03-10 19:55:00 377.9900 377.9900 377.3172 377.5100 133.0
    ...
    2025-02-10 04:04:00 411.1200 411.1799 411.0601 411.1799 646.0
    2025-02-10 04:03:00 411.0102 411.1499 410.9903 411.1100 786.0
    2025-02-10 04:02:00 411.0002 411.1499 410.9104 410.9903 625.0
    2025-02-10 04:01:00 410.7407 411.0801 410.7407 410.8505 229.0
    2025-02-10 04:00:00 411.1400 411.1799 409.1839 410.7407 1573.0

    [18914 rows x 5 columns],
    {'1. Information': 'Intraday (1min) open, high, low, close prices and volume',
     '2. Symbol': 'MSFT',
     '3. Last Refreshed': '2025-03-10 19:59:00',
     '4. Interval': '1min',
     '5. Output Size': 'Full size',
     '6. Time Zone': 'US/Eastern'})
```

```
In [134... data, meta_data = ts.get_intraday(symbol='MSFT', outputsize='full')
```

```
In [135... data.head()
```

```
Out[135...
    1. open  2. high  3. low  4. close  5. volume
    date
    2025-03-10 19:45:00 377.80 378.00 376.81 377.45 13733.0
    2025-03-10 19:30:00 377.68 378.00 376.76 377.30 26527.0
    2025-03-10 19:15:00 378.30 378.75 377.25 378.00 13489.0
    2025-03-10 19:00:00 379.35 379.46 378.02 378.61 5116.0
    2025-03-10 18:45:00 380.16 381.00 379.11 379.32 4716.0
```

```
In [136... data, meta_data = ts.get_intraday(symbol='MSFT', outputsize='compact')
```

```
In [137... data.describe()
```

```
Out[137...
```

	1. open	2. high	3. low	4. close	5. volume
count	100.000000	100.000000	100.000000	100.000000	1.000000e+02
mean	386.564294	388.173654	384.774855	386.247972	5.640239e+05
std	5.609431	7.122112	6.411540	5.341578	1.427517e+06
min	377.680000	378.000000	365.647300	377.300000	5.620000e+02
25%	380.782500	381.542500	379.460000	380.800000	6.979500e+03
50%	387.810000	388.940000	386.449500	387.415000	1.226440e+05
75%	390.877500	392.800000	389.545000	391.367500	5.867632e+05
max	406.937000	414.779800	393.130000	393.590000	1.222354e+07

```
In [138... data.tail()
```

```
Out[138...
```

	1. open	2. high	3. low	4. close	5. volume
date					
2025-03-07 12:00:00	386.600	388.01	385.5400	386.3100	581828.0
2025-03-07 11:45:00	386.665	386.81	385.8100	386.5441	679939.0
2025-03-07 11:30:00	387.970	388.30	385.9801	386.6850	735128.0
2025-03-07 11:15:00	389.730	389.81	387.3750	387.9026	586341.0
2025-03-07 11:00:00	390.750	390.75	389.3200	389.7000	487196.0

```
In [139... data.head()
```

```
Out[139...
```

	1. open	2. high	3. low	4. close	5. volume
date					
2025-03-10 19:45:00	377.80	378.00	376.81	377.45	13733.0
2025-03-10 19:30:00	377.68	378.00	376.76	377.30	26527.0
2025-03-10 19:15:00	378.30	378.75	377.25	378.00	13489.0
2025-03-10 19:00:00	379.35	379.46	378.02	378.61	5116.0
2025-03-10 18:45:00	380.16	381.00	379.11	379.32	4716.0

```
In [140... #now let's quickly save this to csv
filename = 'microsoft.csv'

data.to_csv(filename)
```

So let's say we want to grab data for multiple stocks. We don't have to always request the API especially since it is free, there is always a limitation on how fast you can download files. So what do you do?

```
In [141... #We have a list of the following 5 stocks, let's just take 5 stocks from our

data_request = []
for i in range(0,5):
    data_request.append(sp500Stocks[i])
```

```
In [142... data_request
```

```
Out[142... ['MMM', 'AOS', 'ABT', 'ABBV', 'ACN']
```

```
In [143... #Now let's loop to get the data, but let's give the API some time to receive

import time
from random import randint

for ticker in data_request:

    data, meta_data = ts.get_intraday(symbol= ticker , outputsize='full')

    #Now we have to create a filename dynamically, so we will use string mar

    filename = ticker + '.csv'

    data.to_csv(filename)
    #API limits you to 5 API calls per minute
    time.sleep(randint(1,10))
```

```
In [144... import pandas as pd

data = pd.read_csv('MMM.csv')
```