



```
In [1]: import pandas as pd
```

```
In [4]: import requests as rq  
from bs4 import BeautifulSoup
```

```
In [5]: web = rq.get("https://quotes.toscrape.com/")
```

Check if Website Loaded Correctly

```
In [7]: print(web.status_code)
```

```
200
```

Get Website HTML Code

here i can use web.content also but html.text is more beautifull the web.content

```
In [28]: html = web.text
```

```
In [29]: print(html)
```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Quotes to Scrape</title>
    <link rel="stylesheet" href="/static/bootstrap.min.css">
    <link rel="stylesheet" href="/static/main.css">

</head>
<body>
    <div class="container">
        <div class="row header-box">
            <div class="col-md-8">
                <h1>
                    <a href="/" style="text-decoration: none">Quotes to Scrap
e</a>
                </h1>
            </div>
            <div class="col-md-4">
                <p>
                    <a href="/login">Login</a>
                </p>
            </div>
        </div>

        <div class="row">
            <div class="col-md-8">
                <div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
                    <span class="text" itemprop="text">"The world as we have created it is
a process of our thinking. It cannot be changed without changing our thinkin
g."</span>
                    <span>by <small class="author" itemprop="author">Albert Einstein</smal
l>
                    <a href="/author/Albert-Einstein">(about)</a>
                </span>
                <div class="tags">
                    Tags:
                    <meta class="keywords" itemprop="keywords" content="change,deep-tho
ughts,thinking,world" />
                <a class="tag" href="/tag/change/page/1/">change</a>
                <a class="tag" href="/tag/deep-thoughts/page/1/">deep-thoughts</a>
                <a class="tag" href="/tag/thinking/page/1/">thinking</a>
                <a class="tag" href="/tag/world/page/1/">world</a>
            </div>
        </div>
    </div>

```

```
</div>

<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"It is our choices, Harry, that show what we truly are, far more than our abilities."</span>
    <span>by <small class="author" itemprop="author">J.K. Rowling</small>
    <a href="/author/J-K-Rowling">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" itemprop="keywords" content="abilities,choices" />
    </div>
    <a class="tag" href="/tag/abilities/page/1/">abilities</a>
    <a class="tag" href="/tag/choices/page/1/">choices</a>
</div>
</div>

<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"There are only two ways to live your life. One is as though nothing is a miracle. The other is as though everything is a miracle."</span>
    <span>by <small class="author" itemprop="author">Albert Einstein</small>
    <a href="/author/Albert-Einstein">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" itemprop="keywords" content="inspirational,life,live,miracle,miracles" />
    </div>
    <a class="tag" href="/tag/inspirational/page/1/">inspirational</a>
    <a class="tag" href="/tag/life/page/1/">life</a>
    <a class="tag" href="/tag/live/page/1/">live</a>
    <a class="tag" href="/tag/miracle/page/1/">miracle</a>
    <a class="tag" href="/tag/miracles/page/1/">miracles</a>
</div>
</div>

<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"The person, be it gentleman or lady, who has not pleasure in a good novel, must be intolerably stupid."</span>
    <span>by <small class="author" itemprop="author">Jane Austen</small>
    <a href="/author/Jane-Austen">(about)</a>
    </span>
    <div class="tags">
        Tags:
```

```
        <meta class="keywords" itemprop="keywords" content="aliteracy,books,classic,humor" />

        <a class="tag" href="/tag/aliteracy/page/1/">aliteracy</a>
        <a class="tag" href="/tag/books/page/1/">books</a>
        <a class="tag" href="/tag/classic/page/1/">classic</a>
        <a class="tag" href="/tag/humor/page/1/">humor</a>

    </div>
</div>

<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"Imperfection is beauty, madness is
genius and it's better to be absolutely ridiculous than absolutely boring."</span>
    <span>by <small class="author" itemprop="author">Marilyn Monroe</small>
    <a href="/author/Marilyn-Monroe">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" itemprop="keywords" content="be-yourself,inspirational" />

        <a class="tag" href="/tag/be-yourself/page/1/">be-yourself</a>
        <a class="tag" href="/tag/inspirational/page/1/">inspirational</a>

    </div>
</div>

<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"Try not to become a man of success.
Rather become a man of value."</span>
    <span>by <small class="author" itemprop="author">Albert Einstein</small>
    <a href="/author/Albert-Einstein">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" itemprop="keywords" content="adulthood,success,value" />

        <a class="tag" href="/tag/adulthood/page/1/">adulthood</a>
        <a class="tag" href="/tag/success/page/1/">success</a>
        <a class="tag" href="/tag/value/page/1/">value</a>

    </div>
</div>
```

```
<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"It is better to be hated for what you are than to be loved for what you are not."</span>
    <span>by <small class="author" itemprop="author">André Gide</small>
    <a href="/author/Andre-Gide">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" itemprop="keywords" content="life,love" />
        <a class="tag" href="/tag/life/page/1/">life</a>
        <a class="tag" href="/tag/love/page/1/">love</a>
    </div>
</div>

<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"I have not failed. I've just found 10,000 ways that won't work."</span>
    <span>by <small class="author" itemprop="author">Thomas A. Edison</small>
    <a href="/author/Thomas-A-Edison">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" itemprop="keywords" content="edison,failure,inspirational,paraphrased" />
        <a class="tag" href="/tag/edison/page/1/">edison</a>
        <a class="tag" href="/tag/failure/page/1/">failure</a>
        <a class="tag" href="/tag/inspirational/page/1/">inspirational</a>
        <a class="tag" href="/tag/paraphrased/page/1/">paraphrased</a>
    </div>
</div>

<div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"A woman is like a tea bag; you never know how strong it is until it's in hot water."</span>
    <span>by <small class="author" itemprop="author">Eleanor Roosevelt</small>
    <a href="/author/Eleanor-Roosevelt">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" itemprop="keywords" content="misattributed-eleanor-roosevelt" />
        <a class="tag" href="/tag/misattributed-eleanor-roosevelt/page/1/">misattributed-eleanor-roosevelt</a>
    </div>
</div>
```

```
1/">misattributed-eleanor-roosevelt</a>

        </div>
    </div>

    <div class="quote" itemscope itemtype="http://schema.org/CreativeWork">
        <span class="text" itemprop="text">"A day without sunshine is like, you know, night."</span>
        <span>by <small class="author" itemprop="author">Steve Martin</small>
        <a href="/author/Steve-Martin">(about)</a>
        </span>
        <div class="tags">
            Tags:
            <meta class="keywords" itemprop="keywords" content="humor,obvious,simile" />
            <a class="tag" href="/tag/humor/page/1/">humor</a>
            <a class="tag" href="/tag/obvious/page/1/">obvious</a>
            <a class="tag" href="/tag/simile/page/1/">simile</a>
        </div>
    </div>

    <nav>
        <ul class="pager">

            <li class="next">
                <a href="/page/2/">Next <span aria-hidden="true">&rarr;;</span>
            </li>
        </ul>
    </nav>
</div>
<div class="col-md-4 tags-box">

    <h2>Top Ten tags</h2>

    <span class="tag-item">
        <a class="tag" style="font-size: 28px" href="/tag/love/">love</a>
    </span>

    <span class="tag-item">
        <a class="tag" style="font-size: 26px" href="/tag/inspirational/">inspirational</a>
    </span>

    <span class="tag-item">
        <a class="tag" style="font-size: 26px" href="/tag/life/">life</a>
    </span>

```

```
<span class="tag-item">
<a class="tag" style="font-size: 24px" href="/tag/humor/">humor</a>
</span>

<span class="tag-item">
<a class="tag" style="font-size: 22px" href="/tag/books/">books</a>
</span>

<span class="tag-item">
<a class="tag" style="font-size: 14px" href="/tag/reading/">readin
g</a>
</span>

<span class="tag-item">
<a class="tag" style="font-size: 10px" href="/tag/friendship/">frie
ndship</a>
</span>

<span class="tag-item">
<a class="tag" style="font-size: 8px" href="/tag/friends/">friend
s</a>
</span>

<span class="tag-item">
<a class="tag" style="font-size: 8px" href="/tag/truth/">truth</a>
</span>

<span class="tag-item">
<a class="tag" style="font-size: 6px" href="/tag/simile/">simil
e</a>
</span>

</div>
</div>

</div>
<footer class="footer">
    <div class="container">
        <p class="text-muted">
            Quotes by: <a href="https://www.goodreads.com/quotes">GoodRead
s.com</a>
        </p>
        <p class="copyright">
            Made with <span class='zyte'>♥</span> by <a class='zyte' hre
f="https://www.zyte.com">Zyte</a>
        </p>
    </div>
</footer>
</body>
</html>
```

Parse HTML Using BeautifulSoup

```
In [30]: soup = BeautifulSoup(html, "html.parser")
```

Inspect Website Structure

in a code we can see class name is "quote" tag name is div

```
In [33]: soup.find_all("div", class_="quote")
```

```
Out[33]: [<div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking."</span>
    <span>by <small class="author" itemprop="author">Albert Einstein</small>
    <a href="/author/Albert-Einstein">(about)</a>
    </span>
    <div class="tags">
        Tags:
        <meta class="keywords" content="change,deep-thoughts,thinking,world" itemprop="keywords"/>
        <a class="tag" href="/tag/change/page/1/">change</a>
        <a class="tag" href="/tag/deep-thoughts/page/1/">deep-thoughts</a>
        <a class="tag" href="/tag/thinking/page/1/">thinking</a>
        <a class="tag" href="/tag/world/page/1/">world</a>
    </div>
    </div>,
    <div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
        <span class="text" itemprop="text">"It is our choices, Harry, that show what we truly are, far more than our abilities."</span>
        <span>by <small class="author" itemprop="author">J.K. Rowling</small>
        <a href="/author/J-K-Rowling">(about)</a>
        </span>
        <div class="tags">
            Tags:
            <meta class="keywords" content="abilities,choices" itemprop="keywords"/>
            <a class="tag" href="/tag/abilities/page/1/">abilities</a>
            <a class="tag" href="/tag/choices/page/1/">choices</a>
        </div>
        </div>,
        <div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
            <span class="text" itemprop="text">"There are only two ways to live your life. One is as though nothing is a miracle. The other is as though everything is a miracle."</span>
            <span>by <small class="author" itemprop="author">Albert Einstein</small>
            <a href="/author/Albert-Einstein">(about)</a>
            </span>
            <div class="tags">
                Tags:
                <meta class="keywords" content="inspirational,life,live,miracle,miracles" itemprop="keywords"/>
                <a class="tag" href="/tag/inspirational/page/1/">inspirational</a>
                <a class="tag" href="/tag/life/page/1/">life</a>
                <a class="tag" href="/tag/live/page/1/">live</a>
                <a class="tag" href="/tag/miracle/page/1/">miracle</a>
                <a class="tag" href="/tag/miracles/page/1/">miracles</a>
            </div>
            </div>,
            <div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
                <span class="text" itemprop="text">"The person, be it gentleman or lady, who has not pleasure in a good novel, must be intolerably stupid."</span>
                <span>by <small class="author" itemprop="author">Jane Austen</small>
                <a href="/author/Jane-Austen">(about)</a>
```

```
</span>
<div class="tags">
    Tags:
        <meta class="keywords" content="aliteracy,books,classic,humor" itemprop="keywords"/>
        <a class="tag" href="/tag/aliteracy/page/1/">aliteracy</a>
        <a class="tag" href="/tag/books/page/1/">books</a>
        <a class="tag" href="/tag/classic/page/1/">classic</a>
        <a class="tag" href="/tag/humor/page/1/">humor</a>
    </div>
</div>,
<div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"Imperfection is beauty, madness is genius and it's better to be absolutely ridiculous than absolutely boring."</span>
    <span>by <small class="author" itemprop="author">Marilyn Monroe</small>
        <a href="/author/Marilyn-Monroe">(about)</a>
    </span>
<div class="tags">
    Tags:
        <meta class="keywords" content="be-yourself,inspirational" itemprop="keywords"/>
        <a class="tag" href="/tag/be-yourself/page/1/">be-yourself</a>
        <a class="tag" href="/tag/inspirational/page/1/">inspirational</a>
    </div>
</div>,
<div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"Try not to become a man of success. Rather become a man of value."</span>
    <span>by <small class="author" itemprop="author">Albert Einstein</small>
        <a href="/author/Albert-Einstein">(about)</a>
    </span>
<div class="tags">
    Tags:
        <meta class="keywords" content="adulthood,success,value" itemprop="keywords"/>
        <a class="tag" href="/tag/adulthood/page/1/">adulthood</a>
        <a class="tag" href="/tag/success/page/1/">success</a>
        <a class="tag" href="/tag/value/page/1/">value</a>
    </div>
</div>,
<div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"It is better to be hated for what you are than to be loved for what you are not."</span>
    <span>by <small class="author" itemprop="author">André Gide</small>
        <a href="/author/Andre-Gide">(about)</a>
    </span>
<div class="tags">
    Tags:
        <meta class="keywords" content="life,love" itemprop="keywords"/>
        <a class="tag" href="/tag/life/page/1/">life</a>
        <a class="tag" href="/tag/love/page/1/">love</a>
    </div>
</div>,
<div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
```

```
<span class="text" itemprop="text">"I have not failed. I've just found 10,00
0 ways that won't work."</span>
<span>by <small class="author" itemprop="author">Thomas A. Edison</small>
<a href="/author/Thomas-A-Edison">(about)</a>
</span>
<div class="tags">
    Tags:
    <meta class="keywords" content="edison,failure,inspirational,paraphrased" itemprop="keywords"/>
    <a class="tag" href="/tag/edison/page/1/">edison</a>
    <a class="tag" href="/tag/failure/page/1/">failure</a>
    <a class="tag" href="/tag/inspirational/page/1/">inspirational</a>
    <a class="tag" href="/tag/paraphrased/page/1/">paraphrased</a>
</div>
</div>,
<div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"A woman is like a tea bag; you never know how strong it is until it's in hot water."</span>
    <span>by <small class="author" itemprop="author">Eleanor Roosevelt</small>
    <a href="/author/Eleanor-Roosevelt">(about)</a>
</span>
<div class="tags">
    Tags:
    <meta class="keywords" content="misattributed-eleanor-roosevelt" itemprop="keywords"/>
    <a class="tag" href="/tag/misattributed-eleanor-roosevelt/page/1/">misattributed-eleanor-roosevelt</a>
</div>
</div>,
<div class="quote" itemscope="" itemtype="http://schema.org/CreativeWork">
    <span class="text" itemprop="text">"A day without sunshine is like, you know, night."</span>
    <span>by <small class="author" itemprop="author">Steve Martin</small>
    <a href="/author/Steve-Martin">(about)</a>
</span>
<div class="tags">
    Tags:
    <meta class="keywords" content="humor,obvious,simile" itemprop="keywords"/>
    <a class="tag" href="/tag/humor/page/1/">humor</a>
    <a class="tag" href="/tag/obvious/page/1/">obvious</a>
    <a class="tag" href="/tag/simile/page/1/">simile</a>
</div>
</div>]
```

```
In [34]: len(soup.find_all("div", class_="quote"))
```

```
Out[34]: 10
```

```
In [37]: file = open("quotes.csv", "w", newline="", encoding="utf-8")
writer = csv.writer(file)
```

```
In [36]: import csv
```

```
In [38]: writer.writerow(["Quote", "Author"])
```

```
Out[38]: 14
```

Extract Quote & Author

```
In [40]: quotes = soup.find_all("div", class_="quote")
```

```
In [41]: for q in quotes:  
    quote = q.find("span", class_="text").text  
    author = q.find("small", class_="author").text
```

LOOP

```
In [42]: for q in quotes:  
    quote = q.find("span", class_="text").text  
    author = q.find("small", class_="author").text  
    print(quote, "-", author)
```

“The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking.” - Albert Einstein

“It is our choices, Harry, that show what we truly are, far more than our abilities.” - J.K. Rowling

“There are only two ways to live your life. One is as though nothing is a miracle. The other is as though everything is a miracle.” - Albert Einstein

“The person, be it gentleman or lady, who has not pleasure in a good novel, must be intolerably stupid.” - Jane Austen

“Imperfection is beauty, madness is genius and it's better to be absolutely ridiculous than absolutely boring.” - Marilyn Monroe

“Try not to become a man of success. Rather become a man of value.” - Albert Einstein

“It is better to be hated for what you are than to be loved for what you are not.” - André Gide

“I have not failed. I've just found 10,000 ways that won't work.” - Thomas A. Edison

“A woman is like a tea bag; you never know how strong it is until it's in hot water.” - Eleanor Roosevelt

“A day without sunshine is like, you know, night.” - Steve Martin

```
In [43]: file = open("quotes.csv", "w", newline="", encoding="utf-8")  
writer = csv.writer(file)
```

```
In [45]: url = "https://quotes.toscrape.com/"  
web = rq.get(url)  
  
soup = BeautifulSoup(web.text, "html.parser")  
  
quotes = soup.find_all("div", class_="quote")
```

```
file = open("quotes.csv", "w", newline="", encoding="utf-8")
writer = csv.writer(file)
writer.writerow(["Quote", "Author"])

for q in quotes:
    quote = q.find("span", class_="text").text
    author = q.find("small", class_="author").text
    writer.writerow([quote, author])

file.close()

print("CSV file created successfully ")
```

CSV file created successfully

Find Where Is Your Csv File is Located

In [46]: `import os
os.getcwd()`

Out[46]: 'C:\\\\Users\\\\GS INFO\\\\Web Scrapping'

In []: