

```
# Import necessary libraries
import requests
from bs4 import BeautifulSoup as bs
import pandas as pd
import csv

url = "http://books.toscrape.com/"
response = requests.get(url) # Sending a request to the specified URL

if response.status_code == 200: # Checking if the request was successful
    print("Request Successful") # Printing a success message if the status code is 200
else:
    print("Request Failed") # Printing a failure message if the status code is not 200

    Request Successful
```

```
print(response.text[:1000])
```

ChatGPT

```
<!DOCTYPE html>
<!--[if lt IE 7]> <html lang="en-us" class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]> <html lang="en-us" class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]> <html lang="en-us" class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html lang="en-us" class="no-js"> <!--<![endif]-->
<head>
<title>
All products | Books to Scrape - Sandbox
</title>

<meta http-equiv="content-type" content="text/html; charset=UTF-8" />
<meta name="created" content="24th Jun 2016 09:29" />
<meta name="description" content="" />
<meta name="viewport" content="width=device-width" />
<meta name="robots" content="NOARCHIVE,NOCACHE" />

<!-- Le HTML5 shim, for IE6-8 support of HTML elements -->
<!--[if lt IE 9]>
<script src="//html5shim.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->

<link rel="shortcut icon" href="static/oscar/favicon.

soup = bs(response.text, "html.parser") # Creating a BeautifulSoup object for HTML parsing
print(type(soup))

<class 'bs4.BeautifulSoup'>

books = soup.find_all('article', class_='product_pod') # Finding all HTML elements with the specified class
single_book = books[0] # Accessing the first book element
single_book

<article class="product_pod">
<div class="image_container">
<a href="catalogue/a-light-in-the-attic_1000/index.html"></a>
</div>
<p class="star-rating Three">
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
</p>
<h3><a href="catalogue/a-light-in-the-attic_1000/index.html" title="A Light in the Attic">A Light in the ...</a></h3>
<div class="product_price">
<p class="price_color">£51.77</p>
<p class="instock availability">
<i class="icon-ok"></i>

In stock

</p>
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Add to basket</button>
</form>
</div>
</article>
```

```

title = single_book.find('a', title=True)['title'] # Extracting the 'title' attribute value from the first book element
title

'A Light in the Attic'

rating = single_book.find('p', class_='star-rating')['class'][1] # Extracting the rating class value from the first book element
rating

'Three'

price = single_book.find('p', class_='price_color').text.strip().strip('Â') # Extracting and cleaning the price of the first book
price

'£51.77'

book_url = single_book.find('a')['href'] # Extracting the URL for the first book
link = url + book_url # Creating the complete URL for the book
link

'http://books.toscrape.com/catalogue/a-light-in-the-attic_1000/index.html'




books = soup.find_all('article', class_='product_pod') # Finding all book elements
books_data = [] # List to store book details

for book in books: # Iterating through each book element
    title = book.find('a', title=True)['title'] # Extracting the title of the book
    rating = book.find('p', class_='star-rating')['class'][1] # Extracting the rating of the book
    price = book.find('p', class_='price_color').text.strip().strip('Â') # Extracting and cleaning the price
    book_url = book.find('a')['href'] # Extracting the URL for the book
    link = url + book_url # Creating the complete URL for the book

    books_data.append([title, rating, price, link]) # Appending book details to the list


page = pd.DataFrame(books_data, columns=["title", "rating", "price", "link"]) # Creating a DataFrame from books_data
page

```

	title	rating	price	link	
0	A Light in the Attic	Three	£51.77	http://books.toscrape.com/catalogue/a-light-in...	
1	Tipping the Velvet	One	£53.74	http://books.toscrape.com/catalogue/tipping-th...	
2	Soumission	One	£50.10	http://books.toscrape.com/catalogue/soumission...	
3	Sharp Objects	Four	£47.82	http://books.toscrape.com/catalogue/sharp-obje...	
4	Sapiens: A Brief History of Humankind	Five	£54.23	http://books.toscrape.com/catalogue/sapiens-a-...	
5	The Requiem Red	One	£22.65	http://books.toscrape.com/catalogue/the-requie...	
6	The Dirty Little Secrets of Getting Your Dream...	Four	£33.34	http://books.toscrape.com/catalogue/the-dirty-...	
7	The Coming Woman: A Novel Based on the Life of...	Three	£17.93	http://books.toscrape.com/catalogue/the-coming...	
8	The Boys in the Boat: Nine Americans and Their...	Four	£22.60	http://books.toscrape.com/catalogue/the-boys-i...	
9	The Black Maria	One	£52.15	http://books.toscrape.com/catalogue/the-black-...	
10	Starving Hearts (Triangular Trade Trilogy, #1)	Two	£13.99	http://books.toscrape.com/catalogue/starving-h...	
11	Shakespeare's Sonnets	Four	£20.66	http://books.toscrape.com/catalogue/shakespear...	
12	Set Me Free	Five	£17.46	http://books.toscrape.com/catalogue/set-me-fre...	
13	Scott Pilgrim's Precious Little Life (Scott Pilgrimage, #1)	Five	£52.29	http://books.toscrape.com/catalogue/scott-pilg...	

Next steps:

[Generate code with page](#)

 [View recommended plots](#)

```
for page_num in range(1, 51):
    page_url = f'http://books.toscrape.com/catalogue/page-{page_num}.html'
    print(page_url)
```

Looping through pages from 1 to 50
Generating the URL for each page
Printing and viewing the generated page URL

<http://books.toscrape.com/catalogue/page-1.html>
<http://books.toscrape.com/catalogue/page-2.html>
<http://books.toscrape.com/catalogue/page-3.html>
<http://books.toscrape.com/catalogue/page-4.html>
<http://books.toscrape.com/catalogue/page-5.html>
<http://books.toscrape.com/catalogue/page-6.html>
<http://books.toscrape.com/catalogue/page-7.html>
<http://books.toscrape.com/catalogue/page-8.html>
<http://books.toscrape.com/catalogue/page-9.html>
<http://books.toscrape.com/catalogue/page-10.html>
<http://books.toscrape.com/catalogue/page-11.html>
<http://books.toscrape.com/catalogue/page-12.html>
<http://books.toscrape.com/catalogue/page-13.html>
<http://books.toscrape.com/catalogue/page-14.html>
<http://books.toscrape.com/catalogue/page-15.html>
<http://books.toscrape.com/catalogue/page-16.html>
<http://books.toscrape.com/catalogue/page-17.html>
<http://books.toscrape.com/catalogue/page-18.html>
<http://books.toscrape.com/catalogue/page-19.html>
<http://books.toscrape.com/catalogue/page-20.html>
<http://books.toscrape.com/catalogue/page-21.html>
<http://books.toscrape.com/catalogue/page-22.html>
<http://books.toscrape.com/catalogue/page-23.html>
<http://books.toscrape.com/catalogue/page-24.html>
<http://books.toscrape.com/catalogue/page-25.html>
<http://books.toscrape.com/catalogue/page-26.html>
<http://books.toscrape.com/catalogue/page-27.html>
<http://books.toscrape.com/catalogue/page-28.html>
<http://books.toscrape.com/catalogue/page-29.html>
<http://books.toscrape.com/catalogue/page-30.html>
<http://books.toscrape.com/catalogue/page-31.html>
<http://books.toscrape.com/catalogue/page-32.html>
<http://books.toscrape.com/catalogue/page-33.html>
<http://books.toscrape.com/catalogue/page-34.html>
<http://books.toscrape.com/catalogue/page-35.html>
<http://books.toscrape.com/catalogue/page-36.html>

```
http://books.toscrape.com/catalogue/page-37.html
http://books.toscrape.com/catalogue/page-38.html
http://books.toscrape.com/catalogue/page-39.html
http://books.toscrape.com/catalogue/page-40.html
http://books.toscrape.com/catalogue/page-41.html
http://books.toscrape.com/catalogue/page-42.html
http://books.toscrape.com/catalogue/page-43.html
http://books.toscrape.com/catalogue/page-44.html
http://books.toscrape.com/catalogue/page-45.html
http://books.toscrape.com/catalogue/page-46.html
http://books.toscrape.com/catalogue/page-47.html
http://books.toscrape.com/catalogue/page-48.html
http://books.toscrape.com/catalogue/page-49.html
http://books.toscrape.com/catalogue/page-50.html

primary_url = "http://books.toscrape.com/"
books_50_data = []

for page_num in range(1, 51):
    page_url = f'http://books.toscrape.com/catalogue/page-{page_num}.html'
    response = requests.get(page_url)
    soup_page = bs(response.text, "html.parser")
    books = soup_page.find_all('article', class_='product_pod')

    for book in books:
        title = book.find('a', title=True)['title']
        rating = book.find('p', class_='star-rating')['class'][1]
        price = book.find('p', class_='price_color').text.strip().strip('Â')
        book_url = book.find('a')['href']
        link = primary_url + book_url

        books_50_data.append([title, rating, price, link])

page_50 = pd.DataFrame(books_50_data, columns=["title", "rating", "price", "link"])
page_50
```

	title	rating	price	link	
0	A Light in the Attic	Three	£51.77	http://books.toscrape.com/a-light-in-the-attic...	
1	Tipping the Velvet	One	£53.74	http://books.toscrape.com/tipping-the-velvet_9...	
2	Soumission	One	£50.10	http://books.toscrape.com/soumission_998/index...	
3	Sharp Objects	Four	£47.82	http://books.toscrape.com/sharp-objects_997/in...	
4	Sapiens: A Brief History of Humankind	Five	£54.23	http://books.toscrape.com/sapiens-a-brief-hist...	
...	
995	Alice in Wonderland (Alice's Adventures in Won	One	£55.53	http://books.toscrape.com/alice-in-wonderland-...	