

# Load Librairies

```
In [93]: import pandas as pd
import numpy as np
import requests
from bs4 import BeautifulSoup as bs
import urllib.request
from urllib.request import urlopen
import os
from functools import lru_cache
```

## Global variables

```
In [105... BASE_URL = "https://books.toscrape.com/"
CODE_STATUS = 200
NB_PAGES_TO_SCRAP = 3
## Informations to scrap
INFORMATIONS_TO_SCRAP = ['Title',
                          "Category",
                          "Rating",
                          "string_price",
                          "price",
                          "availability_string",
                          "availability",
                          "url"]

## Path to save the result
PATH_TO_SAVE_RESULT = "/home/thiernosidy/Python/WebSrapping"
```

## Create Folder for to save result

```
In [116... def create_folder(path_to_create,
                    filename = ""):
    path_to_create = path_to_create+filename
    if not os.path.exists(path=path_to_create):
        # if the path_to_save_csv is not present
        # then create it.
        print("Create folder")
        return os.makedirs(path_to_create)
    else:
        print("The directory already exists")
        return path_to_create
## Call function and create folders
# folder to save the csv file
PATH_TO_SAVE_IMAGES = create_folder(path_to_create=os.path.join(PATH_TO_SAVE_RESULT, "Images_books"))
PATH_TO_SAVE_DATA = create_folder(path_to_create=os.path.join(PATH_TO_SAVE_RESULT, "Data_csv"))
## show the result
print("\n")
print(PATH_TO_SAVE_IMAGES)
print(PATH_TO_SAVE_DATA)
```

The directory already exists  
The directory already exists

/home/thiernosidy/Python/WebSrapping/Images\_books  
/home/thiernosidy/Python/WebSrapping/Data\_csv

# Get the link for earch book

```
In [97]: #Use decorators to accelerate execution time
@lru_cache
def web_scraping(link):
    page_get = requests.get(link)
    if page_get.status_code == CODE_STATUS:
        print("The request was successful")
        print("\n")
        soup = bs(page_get.content, "html.parser")
        book_link = soup.find_all("h3")
        return book_link
    else:
        return "The request did not work"
```

## Function to get the information about all the books for each page

```
In [122]: #Use decorators to accelerate execution time
@lru_cache
def get_information(link):
    datas = []
    try:
        ## Call fonction for to get the information about earch book
        book_link = web_scraping(link)
        for element in book_link:
            url = element.find("a")["href"]
            specific_url_book = f"{BASE_URL}catalogue/{url}"
            page = requests.get(specific_url_book)
            #print(base_url+url)
            soup_book = bs(page.content, "html.parser")
            # Extract the price for earch book
            string_price = soup_book.find("p", class_ = "price_color").text.strip()
            ## Convert string price to float
            numbers = re.findall(r'\d.e-+', string_price)
            price = float("".join(numbers))
            # Extract the title
            ## Extract the title
            title = soup_book.find("h1").text
            ## Extract the rating
            rating = soup_book.find("p", class_ = "star-rating")["class"][1]
            # Extract the category
            category = soup_book.find("ul", class_ = "breadcrumb").find_all("li")[2].text
            # The availability
            availability_string = soup_book.find("p", class_ = "instock availability").text
            ## Convert the availability to int
            availability = int(availability_string.replace("In stock (", "").replace("available", ""))
            datas.append([title,
                           category,
                           rating,
                           string_price,
                           price,
                           availability_string,
                           availability,
                           specific_url_book])

        ## show the informations
        #print(f"Number of extracted {number_book_extracted}")
        print(f"Title : {title}")
        print(f"Price : {string_price}")
        print(f"Rating : {rating}")
```

```

        print(f"Category: {category}")
        print(f"Availability : {availability}")
        print(f"URL : {specific_url_book}")
        print("-----")
    print("Finish to scrap data")
    return datas
except:
    print("Data Not Found")

```

## Call Function

```
In [99]: link_test= f"https://books.toscrape.com/catalogue/page-1{1}.html"
```

```
In [123]: datas = get_information(link=link_test)
```

```

Title :Dark Notes
Price : £19.19
Rating : Five
Category: Erotica
Availability : 15
URL : https://books.toscrape.com/catalogue/dark-notes_800/index.html
-----
Title :Daring Greatly: How the Courage to Be Vulnerable Transforms the Way We Live, Love, Parent, and Lead
Price : £19.43
Rating : Three
Category: Nonfiction
Availability : 15
URL : https://books.toscrape.com/catalogue/daring-greatly-how-the-courage-to-be-vulnerable-transforms-the-way-we-live-love-parent-and-lead_799/index.html
-----
Title :Close to You
Price : £49.46
Rating : Four
Category: Christian Fiction
Availability : 15
URL : https://books.toscrape.com/catalogue/close-to-you_798/index.html
-----
Title :Chasing Heaven: What Dying Taught Me About Living
Price : £37.80
Rating : Two
Category: Spirituality
Availability : 15
URL : https://books.toscrape.com/catalogue/chasing-heaven-what-dying-taught-me-about-living_797/index.html
-----
Title :Big Magic: Creative Living Beyond Fear
Price : £30.80
Rating : Three
Category: Nonfiction
Availability : 15
URL : https://books.toscrape.com/catalogue/big-magic-creative-living-beyond-fear_796/index.html
-----
Title :Becoming Wise: An Inquiry into the Mystery and Art of Living
Price : £27.43
Rating : Two
Category: Nonfiction
Availability : 15
URL : https://books.toscrape.com/catalogue/becoming-wise-an-inquiry-into-the-mystery-and-art-of-living_795/index.html
-----
Title :Beauty Restored (Riley Family Legacy Novellas #3)

```

Price : £11.11  
Rating : Two  
Category: Default  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/beauty-restored-riley-family-legacy-novellas-3\\_794/index.html](https://books.toscrape.com/catalogue/beauty-restored-riley-family-legacy-novellas-3_794/index.html)  
-----

Title :Batman: The Long Halloween (Batman)  
Price : £36.50  
Rating : Two  
Category: Sequential Art  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/batman-the-long-halloween-batman\\_793/index.html](https://books.toscrape.com/catalogue/batman-the-long-halloween-batman_793/index.html)  
-----

Title :Batman: The Dark Knight Returns (Batman)  
Price : £15.38  
Rating : Five  
Category: Sequential Art  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/batman-the-dark-knight-returns-batman\\_792/index.html](https://books.toscrape.com/catalogue/batman-the-dark-knight-returns-batman_792/index.html)  
-----

Title :Ayumi's Violin  
Price : £15.48  
Rating : Two  
Category: Default  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/ayumis-violin\\_791/index.html](https://books.toscrape.com/catalogue/ayumis-violin_791/index.html)  
-----

Title :Anonymous  
Price : £46.82  
Rating : Four  
Category: Default  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/anonymous\\_790/index.html](https://books.toscrape.com/catalogue/anonymous_790/index.html)  
-----

Title :Amy Meets the Saints and Sages  
Price : £18.46  
Rating : Three  
Category: Default  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/amy-meets-the-saints-and-sages\\_789/index.html](https://books.toscrape.com/catalogue/amy-meets-the-saints-and-sages_789/index.html)  
-----

Title :Amid the Chaos  
Price : £36.58  
Rating : One  
Category: Cultural  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/amid-the-chaos\\_788/index.html](https://books.toscrape.com/catalogue/amid-the-chaos_788/index.html)  
-----

Title :Amatus  
Price : £50.54  
Rating : Five  
Category: Default  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/amatus\\_787/index.html](https://books.toscrape.com/catalogue/amatus_787/index.html)  
-----

Title :Agnostic: A Spirited Manifesto  
Price : £12.51  
Rating : Five  
Category: Nonfiction  
Availability : 15  
URL : [https://books.toscrape.com/catalogue/agnostic-a-spirited-manifesto\\_786/index.html](https://books.toscrape.com/catalogue/agnostic-a-spirited-manifesto_786/index.html)  
-----

Title :Zealot: The Life and Times of Jesus of Nazareth

Price : £24.70  
 Rating : Three  
 Category: History  
 Availability : 14  
 URL : [https://books.toscrape.com/catalogue/zealot-the-life-and-times-of-jesus-of-nazareth\\_h\\_785/index.html](https://books.toscrape.com/catalogue/zealot-the-life-and-times-of-jesus-of-nazareth_h_785/index.html)  
 -----  
 Title :You (You #1)  
 Price : £43.61  
 Rating : Five  
 Category: Thriller  
 Availability : 14  
 URL : [https://books.toscrape.com/catalogue/you-you-1\\_784/index.html](https://books.toscrape.com/catalogue/you-you-1_784/index.html)  
 -----  
 Title :Wonder Woman: Earth One, Volume One (Wonder Woman: Earth One #1)  
 Price : £37.34  
 Rating : Four  
 Category: Sequential Art  
 Availability : 14  
 URL : [https://books.toscrape.com/catalogue/wonder-woman-earth-one-volume-one-wonder-woman-earth-one-1\\_783/index.html](https://books.toscrape.com/catalogue/wonder-woman-earth-one-volume-one-wonder-woman-earth-one-1_783/index.html)  
 -----  
 Title :Wild Swans  
 Price : £14.36  
 Rating : Two  
 Category: Young Adult  
 Availability : 14  
 URL : [https://books.toscrape.com/catalogue/wild-swans\\_782/index.html](https://books.toscrape.com/catalogue/wild-swans_782/index.html)  
 -----  
 Title :Why the Right Went Wrong: Conservatism--From Goldwater to the Tea Party and Beyond  
 Price : £52.65  
 Rating : Four  
 Category: Politics  
 Availability : 14  
 URL : [https://books.toscrape.com/catalogue/why-the-right-went-wrong-conservatism-from-goldwater-to-the-tea-party-and-beyond\\_781/index.html](https://books.toscrape.com/catalogue/why-the-right-went-wrong-conservatism-from-goldwater-to-the-tea-party-and-beyond_781/index.html)  
 -----  
 Finish to scrap data

In [86]: datas

Out[86]:   
 [['Dark Notes',  
   'Erotica',  
   'Five',  
   '£19.19',  
   19.19,  
   'In stock (15 available)',  
   15,  
   '[https://books.toscrape.com/catalogue/dark-notes\\_800/index.html](https://books.toscrape.com/catalogue/dark-notes_800/index.html)'],  
 ['Daring Greatly: How the Courage to Be Vulnerable Transforms the Way We Live, Love, Parent, and Lead',  
   'Nonfiction',  
   'Three',  
   '£19.43',  
   19.43,  
   'In stock (15 available)',  
   15,  
   '[https://books.toscrape.com/catalogue/daring-greatly-how-the-courage-to-be-vulnerable-transforms-the-way-we-live-love-parent-and-lead\\_799/index.html](https://books.toscrape.com/catalogue/daring-greatly-how-the-courage-to-be-vulnerable-transforms-the-way-we-live-love-parent-and-lead_799/index.html)'],  
 ['Close to You',  
   'Christian Fiction',  
   'Four',  
   '£49.46',  
   49.46,  
   'In stock (15 available)',

```
15,
'https://books.toscrape.com/catalogue/close-to-you_798/index.html'],
['Chasing Heaven: What Dying Taught Me About Living',
'Spirituality',
'Two',
'£37.80',
37.8,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/chasing-heaven-what-dying-taught-me-about-living_797/index.html'],
['Big Magic: Creative Living Beyond Fear',
'Nonfiction',
'Three',
'£30.80',
30.8,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/big-magic-creative-living-beyond-fear_796/index.html'],
['Becoming Wise: An Inquiry into the Mystery and Art of Living',
'Nonfiction',
'Two',
'£27.43',
27.43,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/becoming-wise-an-inquiry-into-the-mystery-and-art-of-living_795/index.html'],
['Beauty Restored (Riley Family Legacy Novellas #3)',
'Default',
'Two',
'£11.11',
11.11,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/beauty-restored-riley-family-legacy-novellas-3_794/index.html'],
['Batman: The Long Halloween (Batman)',
'Sequential Art',
'Two',
'£36.50',
36.5,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/batman-the-long-halloween-batman_793/index.html'],
['Batman: The Dark Knight Returns (Batman)',
'Sequential Art',
'Five',
'£15.38',
15.38,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/batman-the-dark-knight-returns-batman_792/index.html'],
['Ayumi's Violin',
'Default',
'Two',
'£15.48',
15.48,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/ayumis-violin_791/index.html'],
['Anonymous',
'Default',
```

```

'Four',
'£46.82',
46.82,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/anonymous_790/index.html'],
['Amy Meets the Saints and Sages',
'Default',
'Three',
'£18.46',
18.46,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/amy-meets-the-saints-and-sages_789/index.html'],
['Amid the Chaos',
'Cultural',
'One',
'£36.58',
36.58,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/amid-the-chaos_788/index.html'],
['Amatus',
'Default',
'Five',
'£50.54',
50.54,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/amatus_787/index.html'],
['Agnostic: A Spirited Manifesto',
'Nonfiction',
'Five',
'£12.51',
12.51,
'In stock (15 available)',
15,
'https://books.toscrape.com/catalogue/agnostic-a-spirited-manifesto_786/index.html'],
['Zealot: The Life and Times of Jesus of Nazareth',
'History',
'Three',
'£24.70',
24.7,
'In stock (14 available)',
14,
'https://books.toscrape.com/catalogue/zealot-the-life-and-times-of-jesus-of-nazareth_785/index.html'],
['You (You #1)',
'Thriller',
'Five',
'£43.61',
43.61,
'In stock (14 available)',
14,
'https://books.toscrape.com/catalogue/you-you-1_784/index.html'],
['Wonder Woman: Earth One, Volume One (Wonder Woman: Earth One #1)',
'Sequential Art',
'Four',
'£37.34',
37.34,
'In stock (14 available)',
14,
'https://books.toscrape.com/catalogue/wonder-woman-earth-one-volume-one-wonder-woman-earth-one-1_783/index.html'],
['Wild Swans',
'Young Adult',

```

```

'£14.36',
14.36,
'In stock (14 available)',
14,
'https://books.toscrape.com/catalogue/wild-swans_782/index.html'],
['Why the Right Went Wrong: Conservatism--From Goldwater to the Tea Party and Beyond',
'Politics',
'Four',
'£52.65',
52.65,
'In stock (14 available)',
14,
'https://books.toscrape.com/catalogue/why-the-right-went-wrong-conservatism-from-goldw
ater-to-the-tea-party-and-beyond_781/index.html']]

```

## Create a dataframe

In [133...

```

## Create data
dataset = pd.DataFrame(data=datas,
                        columns=INFORMATIONS_TO_SCRAP,
                        index=[element[0] for element in datas])
### Show the first five rows
display(dataset.head(4))
## Drop Title in dataset
dataset.drop("Title", axis = 1, inplace=True)
print("\n")
display(dataset.head(4))

```

	Title	Category	Rating	string_price	price	availability_string	availability	
	Slow States of Collapse: Poems	Poetry	Three	£57.31	57.31	In stock (17 available)	17	https://books.t
	Reasons to Stay Alive	Nonfiction	Two	£26.41	26.41	In stock (17 available)	17	https://books
	Private Paris (Private #10)	Fiction	Five	£47.61	47.61	In stock (17 available)	17	https://books.t
	#HigherSelfie: Wake Up Your Life. Free Your Soul. Find Your Tribe.	Nonfiction	Five	£23.11	23.11	In stock (17 available)	17	https://books.t

	Category	Rating	string_price	price	availability_string	availability	
	Poetry	Three	£57.31	57.31	In stock (17 available)	17	https://books.toscrape.com/cat
	Nonfiction	Two	£26.41	26.41	In stock (17 available)	17	https://books.toscrape.com/ca
	Fiction	Five	£47.61	47.61	In stock (17 available)	17	https://books.toscrape.com/cat
	Nonfiction	Five	£23.11	23.11	In stock (17 available)	17	https://books.toscrape.com/cat



# Download the image of each book

```
In [117... #Use decorators to accelerate execution time
@lru_cache
def download_images(link):
    list_of_link = []
    ## Call fonction for to get the information about earch book
    try:
        book_link = web_scraping(link)
        for element in book_link:
            url = element.find("a")["href"]
            page = requests.get(f"{BASE_URL}catalogue/{url}")
            #print(base_url+url)
            soup_book = bs(page.content, "html.parser")
            ## Find the image link
            images = soup_book.find("div", class_="image_container").find("img")
            link_of_book = images.get("src")
            ## Clean the link of the images
            link_of_book = link_of_book.replace("../", "")
            # Concatenate result with the base of link
            complete_link = f'{BASE_URL}{link_of_book}'
            # Get the image name
            image_name = str(images.get("alt").strip()+".jpg")
            ## Remove the in the name
            image_name = image_name.replace(" ", "_")
            print(image_name)
            filename = os.path.join(PATH_TO_SAVE_IMAGES,
                                    image_name)

            ## Download the image
            urllib.request.urlretrieve(complete_link, filename)
    except:
        print("Link Not found")
```

## Scrap a Several Pages

```
In [128... # Create an empty data
data_all = pd.DataFrame(columns=INFORMATIONS_TO_SCRAP)
print(f"The are {len(INFORMATIONS_TO_SCRAP)} columns in dataset")
```

The are 8 columns in dataset

```
In [129... for num_page in range(1, NB_PAGES_TO_SCRAP+1):
    url_book= f"{BASE_URL}catalogue/page-{num_page}.html"
    ## Call function get informations
    datas= get_information(url_book)
    ## Call function and all images
    download_images(url_book)
    ## Create a dataframe
    data = pd.DataFrame(datas, columns=INFORMATIONS_TO_SCRAP)
    ## Concatenate the pages data
    data_all = pd.concat([data_all, data], ignore_index=True)
```

Title :A Light in the Attic

Price : £51.77

Rating : Three

Category: Poetry

Availability : 22

URL : [https://books.toscrape.com/catalogue/a-light-in-the-attic\\_1000/index.html](https://books.toscrape.com/catalogue/a-light-in-the-attic_1000/index.html)

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Title :Tipping the Velvet

Price : £53.74  
Rating : One  
Category: Historical Fiction  
Availability : 20  
URL : [https://books.toscrape.com/catalogue/tipping-the-velvet\\_999/index.html](https://books.toscrape.com/catalogue/tipping-the-velvet_999/index.html)

-----  
Title :Soumission  
Price : £50.10  
Rating : One  
Category: Fiction  
Availability : 20  
URL : [https://books.toscrape.com/catalogue/soumission\\_998/index.html](https://books.toscrape.com/catalogue/soumission_998/index.html)

-----  
Title :Sharp Objects  
Price : £47.82  
Rating : Four  
Category: Mystery  
Availability : 20  
URL : [https://books.toscrape.com/catalogue/sharp-objects\\_997/index.html](https://books.toscrape.com/catalogue/sharp-objects_997/index.html)

-----  
Title :Sapiens: A Brief History of Humankind  
Price : £54.23  
Rating : Five  
Category: History  
Availability : 20  
URL : [https://books.toscrape.com/catalogue/sapiens-a-brief-history-of-humankind\\_996/index.html](https://books.toscrape.com/catalogue/sapiens-a-brief-history-of-humankind_996/index.html)

-----  
Title :The Requiem Red  
Price : £22.65  
Rating : One  
Category: Young Adult  
Availability : 19  
URL : [https://books.toscrape.com/catalogue/the-requiem-red\\_995/index.html](https://books.toscrape.com/catalogue/the-requiem-red_995/index.html)

-----  
Title :The Dirty Little Secrets of Getting Your Dream Job  
Price : £33.34  
Rating : Four  
Category: Business  
Availability : 19  
URL : [https://books.toscrape.com/catalogue/the-dirty-little-secrets-of-getting-your-dream-job\\_994/index.html](https://books.toscrape.com/catalogue/the-dirty-little-secrets-of-getting-your-dream-job_994/index.html)

-----  
Title :The Coming Woman: A Novel Based on the Life of the Infamous Feminist, Victoria Woodhull  
Price : £17.93  
Rating : Three  
Category: Default  
Availability : 19  
URL : [https://books.toscrape.com/catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-feminist-victoria-woodhull\\_993/index.html](https://books.toscrape.com/catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-feminist-victoria-woodhull_993/index.html)

-----  
Title :The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berlin Olympics  
Price : £22.60  
Rating : Four  
Category: Default  
Availability : 19  
URL : [https://books.toscrape.com/catalogue/the-boys-in-the-boat-nine-americans-and-their-epic-quest-for-gold-at-the-1936-berlin-olympics\\_992/index.html](https://books.toscrape.com/catalogue/the-boys-in-the-boat-nine-americans-and-their-epic-quest-for-gold-at-the-1936-berlin-olympics_992/index.html)

-----  
Title :The Black Maria  
Price : £52.15  
Rating : One  
Category: Poetry  
Availability : 19

URL : [https://books.toscrape.com/catalogue/the-black-maria\\_991/index.html](https://books.toscrape.com/catalogue/the-black-maria_991/index.html)

-----  
Title :Starving Hearts (Triangular Trade Trilogy, #1)

Price : £13.99

Rating : Two

Category: Default

Availability : 19

URL : [https://books.toscrape.com/catalogue/starving-hearts-triangular-trade-trilogy-1\\_990/index.html](https://books.toscrape.com/catalogue/starving-hearts-triangular-trade-trilogy-1_990/index.html)

-----  
Title :Shakespeare's Sonnets

Price : £20.66

Rating : Four

Category: Poetry

Availability : 19

URL : [https://books.toscrape.com/catalogue/shakespeares-sonnets\\_989/index.html](https://books.toscrape.com/catalogue/shakespeares-sonnets_989/index.html)

-----  
Title :Set Me Free

Price : £17.46

Rating : Five

Category: Young Adult

Availability : 19

URL : [https://books.toscrape.com/catalogue/set-me-free\\_988/index.html](https://books.toscrape.com/catalogue/set-me-free_988/index.html)

-----  
Title :Scott Pilgrim's Precious Little Life (Scott Pilgrim #1)

Price : £52.29

Rating : Five

Category: Sequential Art

Availability : 19

URL : [https://books.toscrape.com/catalogue/scott-pilgrims-precious-little-life-scott-pilgrim-1\\_987/index.html](https://books.toscrape.com/catalogue/scott-pilgrims-precious-little-life-scott-pilgrim-1_987/index.html)

-----  
Title :Rip it Up and Start Again

Price : £35.02

Rating : Five

Category: Music

Availability : 19

URL : [https://books.toscrape.com/catalogue/rip-it-up-and-start-again\\_986/index.html](https://books.toscrape.com/catalogue/rip-it-up-and-start-again_986/index.html)

-----  
Title :Our Band Could Be Your Life: Scenes from the American Indie Underground, 1981-1991

Price : £57.25

Rating : Three

Category: Music

Availability : 19

URL : [https://books.toscrape.com/catalogue/our-band-could-be-your-life-scenes-from-the-american-indie-underground-1981-1991\\_985/index.html](https://books.toscrape.com/catalogue/our-band-could-be-your-life-scenes-from-the-american-indie-underground-1981-1991_985/index.html)

-----  
Title :Olio

Price : £23.88

Rating : One

Category: Poetry

Availability : 19

URL : [https://books.toscrape.com/catalogue/olio\\_984/index.html](https://books.toscrape.com/catalogue/olio_984/index.html)

-----  
Title :Mesaerion: The Best Science Fiction Stories 1800-1849

Price : £37.59

Rating : One

Category: Science Fiction

Availability : 19

URL : [https://books.toscrape.com/catalogue/mesaerion-the-best-science-fiction-stories-1800-1849\\_983/index.html](https://books.toscrape.com/catalogue/mesaerion-the-best-science-fiction-stories-1800-1849_983/index.html)

-----  
Title :Libertarianism for Beginners

Price: £51.33

Rating : Two

Category: Politics  
Availability : 19  
URL : [https://books.toscrape.com/catalogue/libertarianism-for-beginners\\_982/index.html](https://books.toscrape.com/catalogue/libertarianism-for-beginners_982/index.html)  
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Title :It's Only the Himalayas

Price : £45.17

Rating : Two

Category: Travel

Availability : 19

URL : [https://books.toscrape.com/catalogue/its-only-the-himalayas\\_981/index.html](https://books.toscrape.com/catalogue/its-only-the-himalayas_981/index.html)  
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Finish to scrap data

Title :In Her Wake

Price : £12.84

Rating : One

Category: Thriller

Availability : 19

URL : [https://books.toscrape.com/catalogue/in-her-wake\\_980/index.html](https://books.toscrape.com/catalogue/in-her-wake_980/index.html)  
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Title :How Music Works

Price : £37.32

Rating : Two

Category: Music

Availability : 19

URL : [https://books.toscrape.com/catalogue/how-music-works\\_979/index.html](https://books.toscrape.com/catalogue/how-music-works_979/index.html)  
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Title :Foolproof Preserving: A Guide to Small Batch Jams, Jellies, Pickles, Condiments, and More: A Foolproof Guide to Making Small Batch Jams, Jellies, Pickles, Condiments, and More

Price : £30.52

Rating : Three

Category: Food and Drink

Availability : 19

URL : [https://books.toscrape.com/catalogue/foolproof-preserving-a-guide-to-small-batch-jams-jellies-pickles-condiments-and-more-a-foolproof-guide-to-making-small-batch-jams-jellies-pickles-condiments-and-more\\_978/index.html](https://books.toscrape.com/catalogue/foolproof-preserving-a-guide-to-small-batch-jams-jellies-pickles-condiments-and-more-a-foolproof-guide-to-making-small-batch-jams-jellies-pickles-condiments-and-more_978/index.html)  
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Title :Chase Me (Paris Nights #2)

Price : £25.27

Rating : Five

Category: Romance

Availability : 19

URL : [https://books.toscrape.com/catalogue/chase-me-paris-nights-2\\_977/index.html](https://books.toscrape.com/catalogue/chase-me-paris-nights-2_977/index.html)  
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Title :Black Dust

Price : £34.53

Rating : Five

Category: Romance

Availability : 19

URL : [https://books.toscrape.com/catalogue/black-dust\\_976/index.html](https://books.toscrape.com/catalogue/black-dust_976/index.html)  
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Title :Birdsong: A Story in Pictures

Price : £54.64

Rating : Three

Category: Childrens

Availability : 19

URL : [https://books.toscrape.com/catalogue/birdsong-a-story-in-pictures\\_975/index.html](https://books.toscrape.com/catalogue/birdsong-a-story-in-pictures_975/index.html)  
-----

Title :America's Cradle of Quarterbacks: Western Pennsylvania's Football Factory from Johnny Unitas to Joe Montana

Price : £22.50

Rating : Three

Category: Default

Availability : 19

URL : [https://books.toscrape.com/catalogue/americas-cradle-of-quarterbacks-western-pennsylvanias-football-factory-from-johnny-unitas-to-joe-montana\\_974/index.html](https://books.toscrape.com/catalogue/americas-cradle-of-quarterbacks-western-pennsylvanias-football-factory-from-johnny-unitas-to-joe-montana_974/index.html)

-----  
Title :Aladdin and His Wonderful Lamp  
Price : £53.13  
Rating : Three  
Category: Default  
Availability : 19  
URL : [https://books.toscrape.com/catalogue/aladdin-and-his-wonderful-lamp\\_973/index.html](https://books.toscrape.com/catalogue/aladdin-and-his-wonderful-lamp_973/index.html)  
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Title :Worlds Elsewhere: Journeys Around Shakespeare's Globe  
Price : £40.30  
Rating : Five  
Category: Nonfiction  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/worlds-elsewhere-journeys-around-shakespeares-globe\\_972/index.html](https://books.toscrape.com/catalogue/worlds-elsewhere-journeys-around-shakespeares-globe_972/index.html)  
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Title :Wall and Piece  
Price : £44.18  
Rating : Four  
Category: Art  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/wall-and-piece\\_971/index.html](https://books.toscrape.com/catalogue/wall-and-piece_971/index.html)  
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Title :The Four Agreements: A Practical Guide to Personal Freedom  
Price : £17.66  
Rating : Five  
Category: Spirituality  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/the-four-agreements-a-practical-guide-to-personal-freedom\\_970/index.html](https://books.toscrape.com/catalogue/the-four-agreements-a-practical-guide-to-personal-freedom_970/index.html)  
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Title :The Five Love Languages: How to Express Heartfelt Commitment to Your Mate  
Price : £31.05  
Rating : Three  
Category: Nonfiction  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/the-five-love-languages-how-to-express-heartfelt-commitment-to-your-mate\\_969/index.html](https://books.toscrape.com/catalogue/the-five-love-languages-how-to-express-heartfelt-commitment-to-your-mate_969/index.html)  
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Title :The Elephant Tree  
Price : £23.82  
Rating : Five  
Category: Thriller  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/the-elephant-tree\\_968/index.html](https://books.toscrape.com/catalogue/the-elephant-tree_968/index.html)  
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Title :The Bear and the Piano  
Price : £36.89  
Rating : One  
Category: Childrens  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/the-bear-and-the-piano\\_967/index.html](https://books.toscrape.com/catalogue/the-bear-and-the-piano_967/index.html)  
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Title :Sophie's World  
Price : £15.94  
Rating : Five  
Category: Philosophy  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/sophies-world\\_966/index.html](https://books.toscrape.com/catalogue/sophies-world_966/index.html)  
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Title :Penny Maybe  
Price : £33.29  
Rating : Three  
Category: Default  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/penny-maybe\\_965/index.html](https://books.toscrape.com/catalogue/penny-maybe_965/index.html)

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Title :Maude (1883-1993):She Grew Up with the country  
Price : £18.02  
Rating : Two  
Category: Default  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/maude-1883-1993she-grew-up-with-the-country\\_964/index.html](https://books.toscrape.com/catalogue/maude-1883-1993she-grew-up-with-the-country_964/index.html)  
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Title :In a Dark, Dark Wood  
Price : £19.63  
Rating : One  
Category: Mystery  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/in-a-dark-dark-wood\\_963/index.html](https://books.toscrape.com/catalogue/in-a-dark-dark-wood_963/index.html)  
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Title :Behind Closed Doors  
Price : £52.22  
Rating : Four  
Category: Thriller  
Availability : 18  
URL : [https://books.toscrape.com/catalogue/behind-closed-doors\\_962/index.html](https://books.toscrape.com/catalogue/behind-closed-doors_962/index.html)  
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Title :You can't bury them all: Poems  
Price : £33.63  
Rating : Two  
Category: Poetry  
Availability : 17  
URL : [https://books.toscrape.com/catalogue/you-cant-bury-them-all-poems\\_961/index.html](https://books.toscrape.com/catalogue/you-cant-bury-them-all-poems_961/index.html)  
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Finish to scrap data  
Title :Slow States of Collapse: Poems  
Price : £57.31  
Rating : Three  
Category: Poetry  
Availability : 17  
URL : [https://books.toscrape.com/catalogue/slow-states-of-collapse-poems\\_960/index.html](https://books.toscrape.com/catalogue/slow-states-of-collapse-poems_960/index.html)  
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Title :Reasons to Stay Alive  
Price : £26.41  
Rating : Two  
Category: Nonfiction  
Availability : 17  
URL : [https://books.toscrape.com/catalogue/reasons-to-stay-alive\\_959/index.html](https://books.toscrape.com/catalogue/reasons-to-stay-alive_959/index.html)  
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Title :Private Paris (Private #10)  
Price : £47.61  
Rating : Five  
Category: Fiction  
Availability : 17  
URL : [https://books.toscrape.com/catalogue/private-paris-private-10\\_958/index.html](https://books.toscrape.com/catalogue/private-paris-private-10_958/index.html)  
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Title :#HigherSelfie: Wake Up Your Life. Free Your Soul. Find Your Tribe.  
Price : £23.11  
Rating : Five  
Category: Nonfiction  
Availability : 17  
URL : [https://books.toscrape.com/catalogue/higherselfie-wake-up-your-life-free-your-soul-find-your-tribe\\_957/index.html](https://books.toscrape.com/catalogue/higherselfie-wake-up-your-life-free-your-soul-find-your-tribe_957/index.html)  
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Title :Without Borders (Wanderlove #1)  
Price : £45.07  
Rating : Two  
Category: New Adult  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/without-borders-wanderlove-1\\_956/index.html](https://books.toscrape.com/catalogue/without-borders-wanderlove-1_956/index.html)

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Title :When We Collided  
Price : £31.77  
Rating : One  
Category: Contemporary  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/when-we-collided\\_955/index.html](https://books.toscrape.com/catalogue/when-we-collided_955/index.html)  
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Title :We Love You, Charlie Freeman  
Price : £50.27  
Rating : Five  
Category: Fiction  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/we-love-you-charlie-freeman\\_954/index.html](https://books.toscrape.com/catalogue/we-love-you-charlie-freeman_954/index.html)  
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Title :Untitled Collection: Sabbath Poems 2014  
Price : £14.27  
Rating : Four  
Category: Poetry  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/untitled-collection-sabbath-poems-2014\\_953/index.html](https://books.toscrape.com/catalogue/untitled-collection-sabbath-poems-2014_953/index.html)  
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Title :Unseen City: The Majesty of Pigeons, the Discreet Charm of Snails & Other Wonders of the Urban Wilderness  
Price : £44.18  
Rating : Four  
Category: Nonfiction  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/unseen-city-the-majesty-of-pigeons-the-discreet-charm-of-snails-other-wonders-of-the-urban-wilderness\\_952/index.html](https://books.toscrape.com/catalogue/unseen-city-the-majesty-of-pigeons-the-discreet-charm-of-snails-other-wonders-of-the-urban-wilderness_952/index.html)  
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Title :Unicorn Tracks  
Price : £18.78  
Rating : Three  
Category: Fantasy  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/unicorn-tracks\\_951/index.html](https://books.toscrape.com/catalogue/unicorn-tracks_951/index.html)  
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Title :Unbound: How Eight Technologies Made Us Human, Transformed Society, and Brought Our World to the Brink  
Price : £25.52  
Rating : One  
Category: History  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/unbound-how-eight-technologies-made-us-human-transformed-society-and-brought-our-world-to-the-brink\\_950/index.html](https://books.toscrape.com/catalogue/unbound-how-eight-technologies-made-us-human-transformed-society-and-brought-our-world-to-the-brink_950/index.html)  
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Title :Tsubasa: WORLD CHRONICLE 2 (Tsubasa WORLD CHRONICLE #2)  
Price : £16.28  
Rating : One  
Category: Sequential Art  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/tsubasa-world-chronicle-2-tsubasa-world-chronicle-2\\_949/index.html](https://books.toscrape.com/catalogue/tsubasa-world-chronicle-2-tsubasa-world-chronicle-2_949/index.html)  
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Title :Throwing Rocks at the Google Bus: How Growth Became the Enemy of Prosperity  
Price : £31.12  
Rating : Three  
Category: Nonfiction  
Availability : 16  
URL : [https://books.toscrape.com/catalogue/throwing-rocks-at-the-google-bus-how-growth-became-the-enemy-of-prosperity\\_948/index.html](https://books.toscrape.com/catalogue/throwing-rocks-at-the-google-bus-how-growth-became-the-enemy-of-prosperity_948/index.html)  
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Title :This One Summer  
Price : £19.49

Rating : Four  
 Category: Sequential Art  
 Availability : 16  
 URL : [https://books.toscrape.com/catalogue/this-one-summer\\_947/index.html](https://books.toscrape.com/catalogue/this-one-summer_947/index.html)  
 -----  
 Title :Thirst  
 Price : £17.27  
 Rating : Five  
 Category: Fiction  
 Availability : 16  
 URL : [https://books.toscrape.com/catalogue/thirst\\_946/index.html](https://books.toscrape.com/catalogue/thirst_946/index.html)  
 -----  
 Title :The Torch Is Passed: A Harding Family Story  
 Price : £19.09  
 Rating : One  
 Category: Add a comment  
 Availability : 16  
 URL : [https://books.toscrape.com/catalogue/the-torch-is-passed-a-harding-family-story\\_945/index.html](https://books.toscrape.com/catalogue/the-torch-is-passed-a-harding-family-story_945/index.html)  
 -----  
 Title :The Secret of Dreadwillow Carse  
 Price : £56.13  
 Rating : One  
 Category: Childrens  
 Availability : 16  
 URL : [https://books.toscrape.com/catalogue/the-secret-of-dreadwillow-carse\\_944/index.html](https://books.toscrape.com/catalogue/the-secret-of-dreadwillow-carse_944/index.html)  
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 Title :The Pioneer Woman Cooks: Dinnertime: Comfort Classics, Freezer Food, 16-Minute Meals, and Other Delicious Ways to Solve Supper!  
 Price : £56.41  
 Rating : One  
 Category: Food and Drink  
 Availability : 16  
 URL : [https://books.toscrape.com/catalogue/the-pioneer-woman-cooks-dinnertime-comfort-classics-freezer-food-16-minute-meals-and-other-delicious-ways-to-solve-supper\\_943/index.html](https://books.toscrape.com/catalogue/the-pioneer-woman-cooks-dinnertime-comfort-classics-freezer-food-16-minute-meals-and-other-delicious-ways-to-solve-supper_943/index.html)  
 -----  
 Title :The Past Never Ends  
 Price : £56.50  
 Rating : Four  
 Category: Mystery  
 Availability : 16  
 URL : [https://books.toscrape.com/catalogue/the-past-never-ends\\_942/index.html](https://books.toscrape.com/catalogue/the-past-never-ends_942/index.html)  
 -----  
 Title :The Natural History of Us (The Fine Art of Pretending #2)  
 Price : £45.22  
 Rating : Three  
 Category: Young Adult  
 Availability : 16  
 URL : [https://books.toscrape.com/catalogue/the-natural-history-of-us-the-fine-art-of-pretending-2\\_941/index.html](https://books.toscrape.com/catalogue/the-natural-history-of-us-the-fine-art-of-pretending-2_941/index.html)  
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In [130]: `data_all.head()`

Out[130]:

	Title	Category	Rating	string_price	price	availability_string	availability	
0	A Light in the Attic	Poetry	Three	£51.77	51.77	In stock (22 available)	22	<a href="https://books.toscrape.com/">https://books.toscrape.com/</a>
1	Tipping the Velvet	Historical Fiction	One	£53.74	53.74	In stock (20 available)	20	<a href="https://books.toscrape.com/">https://books.toscrape.com/</a>
2	Soumission	Fiction	One	£50.10	50.10	In stock (20 available)	20	<a href="https://books.toscrape.com/ca">https://books.toscrape.com/ca</a>



