Importing libraries:

```python
In [24]: import requests
         from bs4 import BeautifulSoup as bs
         import pandas as pd
```

```python
In [3]: url = 'http://books.toscrape.com/'

        response = requests.get(url)
        response
```

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

```python
In [5]: response.status_code
```

```
Out[5]: 200
```

```python
In [6]: type(response)
```

```
Out[6]: requests.models.Response
```

```python
In [7]: print(response.text[:1000])
```

```
<!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.
```

```python
In [8]: type(response.text)
```

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

Parsing

```python
In [10]: soup = bs(response.text, "html")
         type(soup)
```

```
Out[10]: bs4.BeautifulSoup
```

```python
In [11]: soup
```

```
Out[11]: <!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 class="no-js" lang="en-us"> <!--<![endif]-->
         <head>
         <title>
             All products | Books to Scrape - Sandbox
         </title>
         <meta content="text/html; charset=utf-8" http-equiv="content-type"/>
         <meta content="24th Jun 2016 09:29" name="created"/>
         <meta content="" name="description"/>
         <meta content="width=device-width" name="viewport"/>
         <meta content="NOARCHIVE,NOCACHE" name="robots"/>
         <!-- 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]-->
```

```html
<link href="static/oscar/favicon.ico" rel="shortcut icon"/>
<link href="static/oscar/css/styles.css" rel="stylesheet" type="text/css"/>
<link href="static/oscar/js/bootstrap-datetimepicker/bootstrap-datetimepicker.css" rel="stylesheet"/>
<link href="static/oscar/css/datetimepicker.css" rel="stylesheet" type="text/css"/>
</head>
<body class="default" id="default">
<header class="header container-fluid">
<div class="page_inner">
<div class="row">
<div class="col-sm-8 h1"><a href="index.html">Books to Scrape</a><small> We love being scraped!</small>
</div>
</div>
</div>
</header>
<div class="container-fluid page">
<div class="page_inner">
<ul class="breadcrumb">
<li>
<a href="index.html">Home</a>
</li>
<li class="active">All products</li>
</ul>
<div class="row">
<aside class="sidebar col-sm-4 col-md-3">
<div id="promotions_left">
</div>
<div class="side_categories">
<ul class="nav nav-list">
<li>
<a href="catalogue/category/books_1/index.html">

                                    Books

                        </a>
<ul>
<li>
<a href="catalogue/category/books/travel_2/index.html">

                                Travel

                        </a>
</li>
<li>
<a href="catalogue/category/books/mystery_3/index.html">

                                Mystery

                        </a>
</li>
<li>
<a href="catalogue/category/books/historical-fiction_4/index.html">

                                Historical Fiction

                        </a>
</li>
<li>
<a href="catalogue/category/books/sequential-art_5/index.html">

                                Sequential Art

                        </a>
</li>
<li>
<a href="catalogue/category/books/classics_6/index.html">

                                Classics

                        </a>
</li>
<li>
<a href="catalogue/category/books/philosophy_7/index.html">

                                Philosophy

                        </a>
</li>
<li>
<a href="catalogue/category/books/romance_8/index.html">

                                Romance

                        </a>
```

```html
</li>
<li>
<a href="catalogue/category/books/womens-fiction_9/index.html">

                                Womens Fiction

                    </a>
</li>
<li>
<a href="catalogue/category/books/fiction_10/index.html">

                        Fiction

                    </a>
</li>
<li>
<a href="catalogue/category/books/childrens_11/index.html">

                        Childrens

                    </a>
</li>
<li>
<a href="catalogue/category/books/religion_12/index.html">

                        Religion

                    </a>
</li>
<li>
<a href="catalogue/category/books/nonfiction_13/index.html">

                        Nonfiction

                    </a>
</li>
<li>
<a href="catalogue/category/books/music_14/index.html">

                        Music

                    </a>
</li>
<li>
<a href="catalogue/category/books/default_15/index.html">

                        Default

                    </a>
</li>
<li>
<a href="catalogue/category/books/science-fiction_16/index.html">

                        Science Fiction

                    </a>
</li>
<li>
<a href="catalogue/category/books/sports-and-games_17/index.html">

                        Sports and Games

                    </a>
</li>
<li>
<a href="catalogue/category/books/add-a-comment_18/index.html">

                        Add a comment

                    </a>
</li>
<li>
<a href="catalogue/category/books/fantasy_19/index.html">

                        Fantasy

                    </a>
</li>
<li>
<a href="catalogue/category/books/new-adult_20/index.html">

                        New Adult
```

```html
                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/young-adult_21/index.html">

                                    Young Adult

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/science_22/index.html">

                                    Science

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/poetry_23/index.html">

                                    Poetry

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/paranormal_24/index.html">

                                    Paranormal

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/art_25/index.html">

                                    Art

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/psychology_26/index.html">

                                    Psychology

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/autobiography_27/index.html">

                                    Autobiography

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/parenting_28/index.html">

                                    Parenting

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/adult-fiction_29/index.html">

                                    Adult Fiction

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/humor_30/index.html">

                                    Humor

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/horror_31/index.html">

                                    Horror

                                    </a>
                </li>
                <li>
                <a href="catalogue/category/books/history_32/index.html">

                                    History
```

```
                                </a>
</li>
<li>
<a href="catalogue/category/books/food-and-drink_33/index.html">

                                Food and Drink

                            </a>
</li>
<li>
<a href="catalogue/category/books/christian-fiction_34/index.html">

                                Christian Fiction

                            </a>
</li>
<li>
<a href="catalogue/category/books/business_35/index.html">

                                Business

                            </a>
</li>
<li>
<a href="catalogue/category/books/biography_36/index.html">

                                Biography

                            </a>
</li>
<li>
<a href="catalogue/category/books/thriller_37/index.html">

                                Thriller

                            </a>
</li>
<li>
<a href="catalogue/category/books/contemporary_38/index.html">

                                Contemporary

                            </a>
</li>
<li>
<a href="catalogue/category/books/spirituality_39/index.html">

                                Spirituality

                            </a>
</li>
<li>
<a href="catalogue/category/books/academic_40/index.html">

                                Academic

                            </a>
</li>
<li>
<a href="catalogue/category/books/self-help_41/index.html">

                                Self Help

                            </a>
</li>
<li>
<a href="catalogue/category/books/historical_42/index.html">

                                Historical

                            </a>
</li>
<li>
<a href="catalogue/category/books/christian_43/index.html">

                                Christian

                            </a>
</li>
<li>
<a href="catalogue/category/books/suspense_44/index.html">
```

```html
                                Suspense

                            </a>
</li>
<li>
<a href="catalogue/category/books/short-stories_45/index.html">

                                Short Stories

                            </a>
</li>
<li>
<a href="catalogue/category/books/novels_46/index.html">

                                Novels

                            </a>
</li>
<li>
<a href="catalogue/category/books/health_47/index.html">

                                Health

                            </a>
</li>
<li>
<a href="catalogue/category/books/politics_48/index.html">

                                Politics

                            </a>
</li>
<li>
<a href="catalogue/category/books/cultural_49/index.html">

                                Cultural

                            </a>
</li>
<li>
<a href="catalogue/category/books/erotica_50/index.html">

                                Erotica

                            </a>
</li>
<li>
<a href="catalogue/category/books/crime_51/index.html">

                                Crime

                            </a>
</li>
</ul></li>
</ul>
</div>
</aside>
<div class="col-sm-8 col-md-9">
<div class="page-header action">
<h1>All products</h1>
</div>
<div id="messages">
</div>
<div id="promotions">
</div>
<form class="form-horizontal" method="get">
<div style="display:none">
</div>
<strong>1000</strong> results - showing <strong>1</strong> to <strong>20</strong>.



    </form>
<section>
<div class="alert alert-warning" role="alert"><strong>Warning!</strong> This is a demo website for web scraping
purposes. Prices and ratings here were randomly assigned and have no real meaning.</div>
<div>
<ol class="row">
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/a-light-in-the-attic_1000/index.html"><img alt="A Light in the Attic" class="thumbnail" src=
```

```
"media/cache/2c/da/2cdad67c44b002e7ead0cc35693c0e8b.jpg"/></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">Â£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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/tipping-the-velvet_999/index.html"><img alt="Tipping the Velvet" class="thumbnail" src="medi
a/cache/26/0c/260c6ae16bce31c8f8c95daddd9f4a1c.jpg"/></a>
</div>
<p class="star-rating One">
<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/tipping-the-velvet_999/index.html" title="Tipping the Velvet">Tipping the Velvet</a></h3
>
<div class="product_price">
<p class="price_color">Â£53.74</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/soumission_998/index.html"><img alt="Soumission" class="thumbnail" src="media/cache/3e/ef/3e
ef99c9d9adef34639f510662022830.jpg"/></a>
</div>
<p class="star-rating One">
<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/soumission_998/index.html" title="Soumission">Soumission</a></h3>
<div class="product_price">
<p class="price_color">Â£50.10</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
```

```html
<article class="product_pod">
<div class="image_container">
<a href="catalogue/sharp-objects_997/index.html"><img alt="Sharp Objects" class="thumbnail" src="media/cache/32
/51/3251cf3a3412f53f339e42cac2134093.jpg"/></a>
</div>
<p class="star-rating Four">
<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/sharp-objects_997/index.html" title="Sharp Objects">Sharp Objects</a></h3>
<div class="product_price">
<p class="price_color">Â£47.82</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/sapiens-a-brief-history-of-humankind_996/index.html"><img alt="Sapiens: A Brief History of H
umankind" class="thumbnail" src="media/cache/be/a5/bea5697f2534a2f86a3ef27b5a8c12a6.jpg"/></a>
</div>
<p class="star-rating Five">
<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/sapiens-a-brief-history-of-humankind_996/index.html" title="Sapiens: A Brief History of
Humankind">Sapiens: A Brief History ...</a></h3>
<div class="product_price">
<p class="price_color">Â£54.23</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/the-requiem-red_995/index.html"><img alt="The Requiem Red" class="thumbnail" src="media/cach
e/68/33/68339b4c9bc034267e1da611ab3b34f8.jpg"/></a>
</div>
<p class="star-rating One">
<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/the-requiem-red_995/index.html" title="The Requiem Red">The Requiem Red</a></h3>
<div class="product_price">
<p class="price_color">Â£22.65</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>
```

```html
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/the-dirty-little-secrets-of-getting-your-dream-job_994/index.html"><img alt="The Dirty Littl
e Secrets of Getting Your Dream Job" class="thumbnail" src="media/cache/92/27/92274a95b7c251fea59a2b8a78275ab4.
jpg"/></a>
</div>
<p class="star-rating Four">
<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/the-dirty-little-secrets-of-getting-your-dream-job_994/index.html" title="The Dirty Litt
le Secrets of Getting Your Dream Job">The Dirty Little Secrets ...</a></h3>
<div class="product_price">
<p class="price_color">Â£33.34</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-feminist-victoria-woodhull_993/in
dex.html"><img alt="The Coming Woman: A Novel Based on the Life of the Infamous Feminist, Victoria Woodhull" cl
ass="thumbnail" src="media/cache/3d/54/3d54940e57e662c4dd1f3ff00c78cc64.jpg"/></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/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-feminist-victoria-woodhull_99
3/index.html" title="The Coming Woman: A Novel Based on the Life of the Infamous Feminist, Victoria Woodhull">T
he Coming Woman: A ...</a></h3>
<div class="product_price">
<p class="price_color">Â£17.93</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/the-boys-in-the-boat-nine-americans-and-their-epic-quest-for-gold-at-the-1936-berlin-olympic
s_992/index.html"><img alt="The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berl
in Olympics" class="thumbnail" src="media/cache/66/88/66883b91f6804b2323c8369331cb7dd1.jpg"/></a>
</div>
<p class="star-rating Four">
<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/the-boys-in-the-boat-nine-americans-and-their-epic-quest-for-gold-at-the-1936-berlin-oly
mpics_992/index.html" title="The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Ber
lin Olympics">The Boys in the ...</a></h3>
<div class="product_price">
<p class="price_color">Â£22.60</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/the-black-maria_991/index.html"><img alt="The Black Maria" class="thumbnail" src="media/cach
e/58/46/5846057e28022268153beff6d352b06c.jpg"/></a>
</div>
<p class="star-rating One">
<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/the-black-maria_991/index.html" title="The Black Maria">The Black Maria</a></h3>
<div class="product_price">
<p class="price_color">Â£52.15</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/starving-hearts-triangular-trade-trilogy-1_990/index.html"><img alt="Starving Hearts (Triang
ular Trade Trilogy, #1)" class="thumbnail" src="media/cache/be/f4/bef44da28c98f905a3ebec0b87be8530.jpg"/></a>
</div>
<p class="star-rating Two">
<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/starving-hearts-triangular-trade-trilogy-1_990/index.html" title="Starving Hearts (Trian
gular Trade Trilogy, #1)">Starving Hearts (Triangular Trade ...</a></h3>
<div class="product_price">
<p class="price_color">Â£13.99</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/shakespeares-sonnets_989/index.html"><img alt="Shakespeare's Sonnets" class="thumbnail" src=
"media/cache/10/48/1048f63d3b5061cd2f424d20b3f9b666.jpg"/></a>
</div>
<p class="star-rating Four">
<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/shakespeares-sonnets_989/index.html" title="Shakespeare's Sonnets">Shakespeare's Sonnets
</a></h3>
<div class="product_price">
```

```html
<p class="price_color">Â£20.66</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/set-me-free_988/index.html"><img alt="Set Me Free" class="thumbnail" src="media/cache/5b/88/
5b88c52633f53cacf162c15f4f823153.jpg"/></a>
</div>
<p class="star-rating Five">
<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/set-me-free_988/index.html" title="Set Me Free">Set Me Free</a></h3>
<div class="product_price">
<p class="price_color">Â£17.46</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/scott-pilgrims-precious-little-life-scott-pilgrim-1_987/index.html"><img alt="Scott Pilgrim'
s Precious Little Life (Scott Pilgrim #1)" class="thumbnail" src="media/cache/94/b1/94b1b8b244bce9677c2f29ccc89
0d4d2.jpg"/></a>
</div>
<p class="star-rating Five">
<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/scott-pilgrims-precious-little-life-scott-pilgrim-1_987/index.html" title="Scott Pilgrim
's Precious Little Life (Scott Pilgrim #1)">Scott Pilgrim's Precious Little ...</a></h3>
<div class="product_price">
<p class="price_color">Â£52.29</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/rip-it-up-and-start-again_986/index.html"><img alt="Rip it Up and Start Again" class="thumbn
ail" src="media/cache/81/c4/81c4a973364e17d01f217e1188253d5e.jpg"/></a>
</div>
<p class="star-rating Five">
<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/rip-it-up-and-start-again_986/index.html" title="Rip it Up and Start Again">Rip it Up an
d ...</a></h3>
<div class="product_price">
<p class="price_color">Â£35.02</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/our-band-could-be-your-life-scenes-from-the-american-indie-underground-1981-1991_985/index.h
tml"><img alt="Our Band Could Be Your Life: Scenes from the American Indie Underground, 1981-1991" class="thumb
nail" src="media/cache/54/60/54607fe8945897cdcced0044103b10b6.jpg"/></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/our-band-could-be-your-life-scenes-from-the-american-indie-underground-1981-1991_985/ind
ex.html" title="Our Band Could Be Your Life: Scenes from the American Indie Underground, 1981-1991">Our Band Co
uld Be ...</a></h3>
<div class="product_price">
<p class="price_color">Â£57.25</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/olio_984/index.html"><img alt="Olio" class="thumbnail" src="media/cache/55/33/553310a7162dfb
c2c6d19a84da0df9e1.jpg"/></a>
</div>
<p class="star-rating One">
<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/olio_984/index.html" title="Olio">Olio</a></h3>
<div class="product_price">
<p class="price_color">Â£23.88</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/mesaerion-the-best-science-fiction-stories-1800-1849_983/index.html"><img alt="Mesaerion: Th
e Best Science Fiction Stories 1800-1849" class="thumbnail" src="media/cache/09/a3/09a3aef48557576e1a85ba7efea8
ecb7.jpg"/></a>
</div>
```

```html
<p class="star-rating One">
<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/mesaerion-the-best-science-fiction-stories-1800-1849_983/index.html" title="Mesaerion: T
he Best Science Fiction Stories 1800-1849">Mesaerion: The Best Science ...</a></h3>
<div class="product_price">
<p class="price_color">Â£37.59</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/libertarianism-for-beginners_982/index.html"><img alt="Libertarianism for Beginners" class="
thumbnail" src="media/cache/0b/bc/0bbcd0a6f4bcd81ccb1049a52736406e.jpg"/></a>
</div>
<p class="star-rating Two">
<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/libertarianism-for-beginners_982/index.html" title="Libertarianism for Beginners">Libert
arianism for Beginners</a></h3>
<div class="product_price">
<p class="price_color">Â£51.33</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>
</li>
<li class="col-xs-6 col-sm-4 col-md-3 col-lg-3">
<article class="product_pod">
<div class="image_container">
<a href="catalogue/its-only-the-himalayas_981/index.html"><img alt="It's Only the Himalayas" class="thumbnail"
src="media/cache/27/a5/27a53d0bb95bdd88288eaf66c9230d7e.jpg"/></a>
</div>
<p class="star-rating Two">
<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/its-only-the-himalayas_981/index.html" title="It's Only the Himalayas">It's Only the Him
alayas</a></h3>
<div class="product_price">
<p class="price_color">Â£45.17</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>
</li>
</ol>
<div>
```

```
<ul class="pager">
<li class="current">

            Page 1 of 50

        </li>
<li class="next"><a href="catalogue/page-2.html">next</a></li>
</ul>
</div>
</div>
</section>
</div>
</div><!-- /row -->
</div><!-- /page_inner -->
</div><!-- /container-fluid -->
<footer class="footer container-fluid">
</footer>
<!-- jQuery -->
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
<script>window.jQuery || document.write('<script src="static/oscar/js/jquery/jquery-1.9.1.min.js"><\/script>')<
/script>
<!-- Twitter Bootstrap -->
<script src="static/oscar/js/bootstrap3/bootstrap.min.js" type="text/javascript"></script>
<!-- Oscar -->
<script charset="utf-8" src="static/oscar/js/oscar/ui.js" type="text/javascript"></script>
<script charset="utf-8" src="static/oscar/js/bootstrap-datetimepicker/bootstrap-datetimepicker.js" type="text/j
avascript"></script>
<script charset="utf-8" src="static/oscar/js/bootstrap-datetimepicker/locales/bootstrap-datetimepicker.all.js"
type="text/javascript"></script>
<script type="text/javascript">
            $(function() {


    oscar.init();

    oscar.search.init();

            });
        </script>
<!-- Version: N/A -->
</body>
</html>
```

Extract book details from the page:1

In [22]:
```python
# find every book title along with the link

books = soup.find_all('h3')

books_extracted = 0
books_data =[]

# Go through the books one by one and take information out of each one.

for book in books:
  book_url = book.find('a')['href']
  book_response = requests.get(url + book_url)
  book_soup = bs(book_response.content, "html.parser")

  title = book_soup.find('h1').text
  rating = book_soup.find('p', class_='star-rating')['class'][1]
  price = book_soup.find('p', class_ = 'price_color').text.strip()
  link = url + book_url

  books_extracted +=1
  books_data.append([title, rating, price, link])

print(f'Title: {title}')
print(f'Rating: {rating}')
print(f'Price: {price}')
```

```
Title: It's Only the Himalayas
Rating: Two
Price: £45.17
```

Export the data

In [25]:
```python
df = pd.DataFrame(books_data, columns=["Title", "Rating", "Price", "Link"])
df.head()
```

	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-...

In [26]:
```python
# save as csv
df.to_csv("books_scraped.csv")
```

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	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-...

In [26]:
```python
# save as csv
df.to_csv("books_scraped.csv")
```