# **Scraping Books**

# Python reminder

# **Numeric Types**

```
In [2]: type(42)
Out[2]: int
In [3]: type(3.14)
Out[3]: float
In [4]: 4 + 9.5
Out[4]: 13.5
In [5]: abs(-5)
Out[5]: 5
```

#### **Booleans**

```
In [7]: type(True) # or type(False)
Out[7]: bool

In [10]: True and False
Out[10]: False

In [11]: True or False
Out[11]: True
Out[12]: False
```

# Comparisons

```
In [13]: 5 < 3 # Strictly less than
Out[13]:
False
In [14]: 4 <= 4 # Less than or equal
Out[14]:
True
In [15]: "boris" == "seb" # equal, note the `double` =</pre>
```

```
Out[15]: False
In [16]: "boris" != "seb" # not equal
Out[16]: True
```

# Text Sequence Type (Strings, str)

```
"boris"
In [17]:
          'boris'
Out[17]:
          "boris".capitalize()
In [18]:
          'Boris'
Out[18]:
         capitalize("boris")
In [19]:
         NameError
                                                     Traceback (most recent call last)
         Cell In [19], line 1
         ---> 1 capitalize ("boris")
         NameError: name 'capitalize' is not defined
         " boris ".rstrip()
In [23]:
             boris'
Out[23]:
In [24]:
          " boris ".lstrip()
          'boris '
Out[24]:
          " boris ".strip()
In [25]:
          'boris'
Out[25]:
In [26]:
         type(int("42"))
Out[26]:
```

#### **Advanced Data Structure**

### List

```
In [27]: ["apple", "cherries", "banana"]
Out[27]: ['apple', 'cherries', 'banana']
In [28]: len(["apple", "cherries", "banana"])
Out[28]:
In [29]: "banana" in ["apple", "cherries", "banana"]
```

Out[29]: True

```
Dict
         {'city': 'Paris', 'population': 2 141 000}
In [30]:
         {'city': 'Paris', 'population': 2141000}
Out[30]:
In [31]:
         len({'city': 'Paris', 'population': 2 141 000})
Out[31]:
In [32]:
        'city' in {'city': 'Paris', 'population': 2 141 000}
Out[32]:
         Variables
In [34]: name = 'John' # Assignment
         print(name)
         John
In [35]: name = 'Paul' # Re-assignment
         print(name)
         Paul
In [36]: first name = 'John'
         last name = 'Lennon'
In [37]: full name = first name + last name
         print(full name)
         JohnLennon
         Interpolation
In [38]: sentence = f'Hi, my name is {first name} {last name}'
         print(sentence)
         Hi, my name is John Lennon
         list operations
In [39]: # Indexes: 0 1 2
         beatles = ['john', 'paul', 'ringo']
In [40]: beatles[0] # Read
         'john'
Out[40]:
In [41]: beatles.append('george') # Create (in place)
         print(beatles)
         ['john', 'paul', 'ringo', 'george']
```

In [42]: beatles[1] = 'Paul' # Update (in place)

print(beatles)

['john', 'Paul', 'ringo', 'george']

#### dict operations

#### What will happen if we run instruments['john']?

#### **Control Flow**

#### if statement

```
In [51]: age = int(input("How old are you?"))

if age >= 21:
    print("You can become president")

elif age >= 18:
    print("You can vote")

else:
    print("Be patient!")
```

You can vote

# for statement (on a list)

```
In [52]: words = ['cat', 'wolf', 'beetle']
for word in words:
    print(word.upper())
```

CAT WOLF BEETLE

#### for statement (on a dict)

```
instruments
In [54]:
          {'paul': 'bass', 'ringo': 'drums'}
Out[54]:
In [61]:
          instruments.keys()
         dict keys(['paul', 'ringo'])
Out[61]:
In [62]:
          instruments.values()
         dict values(['bass', 'drums'])
Out[62]:
          instruments.items()
In [63]:
         dict items([('paul', 'bass'), ('ringo', 'drums')])
Out[63]:
In [55]:
          for beatle, instrument in instruments.items():
              print(f'{beatle.capitalize()} plays the {instrument}')
         Paul plays the bass
         Ringo plays the drums
```

#### while loop

### **Functions**

```
In [65]: def is_even(number):
    return number % 2 == 0
```

The function is named is\_even The function takes 1 parameter: number (int) The function returns a bool

```
In [66]: result = is_even(42)
print(result)
True
```

# Lets Scrape!

## Lets imports librairies to help us scrap!

```
In [12]: import requests
```

```
from bs4 import BeautifulSoup
import pandas as pd
%matplotlib inline
import matplotlib
```

```
Understand the request/response
```

In [2]: response = requests.get("https://books.toscrape.com/index.html")

```
response.status code
In [13]:
         200
Out[13]:
         response.content
In [14]:
                                                 <html lang="en-us" class="no-js lt-ie9 lt-ie8
         b'<!DOCTYPE html>\n<!--[if lt IE 7]>
Out[14]:
         lt-ie7"> <![endif]-->\n<!--[if IE 7]>
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         ie8"> <![endif]-->\n<!--[if IE 8]>
                                                 <html lang="en-us" class="no-js lt-ie9"> <![e</pre>
         ndif]-->\n<!--[if gt IE 8]><!--> <html lang="en-us" class="no-js"> <!--<![endif]-->\n
                        <title>\n All products | Books to Scrape - Sandbox\n</title>\n\n
         <head>\n
           <meta http-equiv="content-type" content="text/html; charset=UTF-8" />\n
         name="created" content="24th Jun 2016 09:29" />\n <meta name="description" conten
                       <meta name="viewport" content="width=device-width" />\n
         me="robots" content="NOARCHIVE, NOCACHE" />\n\n
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         ort of HTML elements -->\n <!--[if lt IE 9]>\n
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         oglecode.com/svn/trunk/html5.js"></script>\n
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         iv class="col-sm-8 h1"><a href="index.html">Books to Scrape</a><small> We love being scr
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         aped!</small>\n</div>\n\
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a demo website for web scraping purposes. Prices and ratings here were randomly assigned
and have no real meaning.</div>\n\n
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                \n
                                                            <h3><a href="c
atalogue/mesaerion-the-best-science-fiction-stories-1800-1849 983/index.html" title="Mes
aerion: The Best Science Fiction Stories 1800-1849">Mesaerion: The Best Science ...</a>
        \n\n \n <div class="product price">\n
n\n\n\n
                     \xc2\xa337.59\n
                                                          \n\n<p class="in
n n n n n n
                                              \n
                                                   <form>\n
type="submit" class="btn btn-primary btn-block" data-loading-text="Adding...">Add to bas
ket</button>\n </form>\n\n
                                      \n
                                                 </div>\n
icle>\n\n\n
                                                  -4 col-md-3 col-lq-3">\n\n\n\n\n\n\n
                                <article class="product pod">\n
    <div class="image container">\n
                                          \n
      <a href="catalogue/libertarianism-for-beginners 982/index.html"><img src="media/</pre>
cache/0b/bc/0bbcd0a6f4bcd81ccb1049a52736406e.jpg" alt="Libertarianism for Beginners" cla
ss="thumbnail"></a>\n
\n\n
                                    \n
    <i class="icon-star"></i>\n
                                          <i class="icon-star"></i>\n
         <i class="icon-star"></i>\n
                                               <i class="icon-star"></i>\n
              <i class="icon-star"></i>\n
                                                 \n
                    <h3><a href="catalogue/libertarianism-for-beginners 982/index."
html" title="Libertarianism for Beginners">Libertarianism for Beginners</a></h3>\n
                     <div class="product price">\n
                                               \n\n<p class="instock availab
          \xc2\xa351.33\n
  \n
ility">\n
          <i class="icon-ok"></i>\n
                                 \n
                                          In stock\n \n\n\n
                     \n \n \n \n
                                        <form>\n
                                                     <button type="submit"</pre>
class="btn btn-primary btn-block" data-loading-text="Adding...">Add to basket</button>\n
                                      </div>\n \n
   </form>\n\n
                           \n
                                                       </article>\n\n
                                       \n
                  \n
1-lg-3">\n\n\n\n\n
                     <article class="product pod">\n
                                                   \n
```

\n

<a hre

s="image container">\n

```
f="catalogue/its-only-the-himalayas 981/index.html"><img src="media/cache/27/a5/27a53d0b"
b95bdd88288eaf66c9230d7e.jpg" alt="It's Only the Himalayas" class="thumbnail"></a>\n
               \n
                             \n
                                  </div>\n \n\n
                   \n
                                                         <i class="icon-</pre>
star"></i>\n
                        <i class="icon-star"></i>\n
                                                              <i class
="icon-star"></i>\n
                              <i class="icon-star"></i>\n
class="icon-star"></i>\n
                               \n \n \n\
                                                               \n
    <h3><a href="catalogue/its-only-the-himalayas 981/index.html" title="It&#39;s Only
the Himalayas">It's Only the Himalayas</a></h3>\n \n\n
                                                        \n
div class="product price">\n
                         \n\n\n\n\n\n
                                               \n
                                                       <p class="price
color">\xc2\xa345.17\n \n\n\n <i class="icon-o
\n
                          <button type="submit" class="btn btn-primary btn-b</pre>
\n \n \n \n \
lock" data-loading-text="Adding...">Add to basket</button>\n </form>\n\n
                         \n </article>\n\n
              </div>\n
         \n \n \n \div \n \div \n \div \n
               \n
                                         \n
    \n
                                                        Page 1 of 50\n
                                 \n
                 \n
                                               <a href="c</pre>
atalogue/page-2.html">next</a>\n
                                      \n

n </div>
n
n
    </div>\n </section>\n \n\n
                                          </div>\n\n
                                                         </div><!-- /ro
w \rightarrow n < div < !-- /page inner -- /n < div > < !-- /container - fluid -- /n /n < foote
r class="footer container-fluid">\n \n
                                     \n \n</footer>\n\n
               <!-- jQuery -->\n
                                      <script src="http://ajax.googleapis.co</pre>
document.write(\'<script src="static/oscar/js/jquery/jquery-1.9.1.min.js"><\\/script>\')
             \n \n \n \n \n \n <!-- Twitter Bootst
</script>\n
rap -->\n <script type="text/javascript" src="static/oscar/js/bootstrap3/bootstrap.mi
n.js"></script>\n <!-- Oscar -->\n <script src="static/oscar/js/oscar/ui.js" type
="text/javascript" charset="utf-8"></script>\n\n <script src="static/oscar/js/bootstr
ap-datetimepicker/bootstrap-datetimepicker.js" type="text/javascript" charset="utf-8"></
script>\n <script src="static/oscar/js/bootstrap-datetimepicker/locales/bootstrap-dat</pre>
etimepicker.all.js" type="text/javascript" charset="utf-8"></script>\n\n\n
   \n \n\n \n\n
                        \n
                              <script type="text/javascript">\n
$(function() {\n
                         \n
                                  \n oscar.init();\n\n oscar.search.init
                             \n
                                      \n <!-- Version: N/A -->\n
();\n\n
              });\n
                         </script>\n\n
```

#### Parse it with BS4

```
In [5]: soup = BeautifulSoup(response.content, "html.parser")
In [6]:
       soup
       <!DOCTYPE html>
Out[6]:
       <!--[if lt IE 7]> <html lang="en-us" class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-
       <!--[if gt IE 8]><!--> <html class="no-js" lang="en-us"> <!--<![endif]-->
       <head>
       <title>
           All products | Books to Scrape - Sandbox
       <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]-->
       <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</pre>
="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 s
craped!</small>
</div>
</div>
</div>
</header>
<div class="container-fluid page">
<div class="page inner">
<1i>>
<a href="index.html">Home</a>
All products
<div class="row">
<aside class="sidebar col-sm-4 col-md-3">
<div id="promotions left">
</div>
<div class="side categories">
<1i>>
<a href="catalogue/category/books 1/index.html">
                              Books
                      </a>
<l
<1i>>
<a href="catalogue/category/books/travel 2/index.html">
                              Travel
                      </a>
<1i>>
<a href="catalogue/category/books/mystery 3/index.html">
                              Mystery
                      </a>
<1i>>
<a href="catalogue/category/books/historical-fiction 4/index.html">
                              Historical Fiction
                      </a>
<1i>>
<a href="catalogue/category/books/sequential-art 5/index.html">
                              Sequential Art
                      </a>
<1i>>
<a href="catalogue/category/books/classics 6/index.html">
```

Classics

```
</a>
<1i>>
<a href="catalogue/category/books/philosophy 7/index.html">
                               Philosophy
                       </a>
<1i>>
<a href="catalogue/category/books/romance 8/index.html">
                               Romance
                       </a>
<1i>>
<a href="catalogue/category/books/womens-fiction 9/index.html">
                               Womens Fiction
                       </a>
<1i>>
<a href="catalogue/category/books/fiction 10/index.html">
                               Fiction
                       </a>
<1i>>
<a href="catalogue/category/books/childrens 11/index.html">
                               Childrens
                       </a>
<1i>>
<a href="catalogue/category/books/religion 12/index.html">
                               Religion
                       </a>
<1i>>
<a href="catalogue/category/books/nonfiction 13/index.html">
                               Nonfiction
                       </a>
<1i>>
<a href="catalogue/category/books/music 14/index.html">
                              Music
                       </a>
<1i>>
<a href="catalogue/category/books/default 15/index.html">
                               Default
```

</a>

```
<1i>>
<a href="catalogue/category/books/science-fiction 16/index.html">
                               Science Fiction
                       </a>
<1i>>
<a href="catalogue/category/books/sports-and-games 17/index.html">
                               Sports and Games
                       </a>
<1i>>
<a href="catalogue/category/books/add-a-comment 18/index.html">
                               Add a comment
                       </a>
<1i>>
<a href="catalogue/category/books/fantasy 19/index.html">
                               Fantasy
                       </a>
<1i>>
<a href="catalogue/category/books/new-adult 20/index.html">
                               New Adult
                       </a>
<1i>>
<a href="catalogue/category/books/young-adult 21/index.html">
                               Young Adult
                       </a>
<1i>>
<a href="catalogue/category/books/science 22/index.html">
                               Science
                       </a>
<1i>>
<a href="catalogue/category/books/poetry 23/index.html">
                               Poetry
                       </a>
<a href="catalogue/category/books/paranormal 24/index.html">
                               Paranormal
                       </a>
<1i>>
```

<a href="catalogue/category/books/art 25/index.html">

```
</a>
<1i>>
<a href="catalogue/category/books/psychology 26/index.html">
                               Psychology
                       </a>
<1i>>
<a href="catalogue/category/books/autobiography 27/index.html">
                              Autobiography
                       </a>
<1i>>
<a href="catalogue/category/books/parenting 28/index.html">
                               Parenting
                       </a>
<1i>>
<a href="catalogue/category/books/adult-fiction 29/index.html">
                              Adult Fiction
                       </a>
<1i>>
<a href="catalogue/category/books/humor 30/index.html">
                              Humor
                       </a>
<1i>>
<a href="catalogue/category/books/horror 31/index.html">
                              Horror
                       </a>
<1i>>
<a href="catalogue/category/books/history 32/index.html">
                              History
                       </a>
<1i>>
<a href="catalogue/category/books/food-and-drink 33/index.html">
                              Food and Drink
                       </a>
<1i>>
<a href="catalogue/category/books/christian-fiction 34/index.html">
```

Christian Fiction

```
<1i>>
<a href="catalogue/category/books/business 35/index.html">
                               Business
                       </a>
<1i>>
<a href="catalogue/category/books/biography 36/index.html">
                               Biography
                       </a>
<1i>>
<a href="catalogue/category/books/thriller 37/index.html">
                               Thriller
                       </a>
<1i>>
<a href="catalogue/category/books/contemporary 38/index.html">
                               Contemporary
                       </a>
<1i>>
<a href="catalogue/category/books/spirituality 39/index.html">
                               Spirituality
                       </a>
<1i>>
<a href="catalogue/category/books/academic 40/index.html">
                               Academic
                       </a>
<1i>>
<a href="catalogue/category/books/self-help 41/index.html">
                               Self Help
                       </a>
<1i>>
<a href="catalogue/category/books/historical 42/index.html">
                               Historical
                       </a>
<1i>>
<a href="catalogue/category/books/christian 43/index.html">
                               Christian
                       </a>
```

<</li>

</a>

```
<a href="catalogue/category/books/suspense 44/index.html">
                              Suspense
                       </a>
<1i>>
<a href="catalogue/category/books/short-stories 45/index.html">
                              Short Stories
                       </a>
<1i>>
<a href="catalogue/category/books/novels 46/index.html">
                              Novels
                       </a>
<1i>>
<a href="catalogue/category/books/health 47/index.html">
                              Health
                       </a>
<1i>>
<a href="catalogue/category/books/politics 48/index.html">
                              Politics
                       </a>
<1i>>
<a href="catalogue/category/books/cultural 49/index.html">
                              Cultural
                       </a>
<1i>>
<a href="catalogue/category/books/erotica 50/index.html">
                              Erotica
                       </a>
<1i>>
<a href="catalogue/category/books/crime 51/index.html">
                              Crime
                       </a>
</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 style="display:none">
<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 w
ebsite for web scraping purposes. Prices and ratings here were randomly assigned and hav
e no real meaning.</div>
<div>
<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>
</dim>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/a-light-in-the-attic 1000/index.html" title="A Light in the Atti
c">A Light in the \dots </a></h3>
<div class="product price">
£51.77
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
</1i>
<article class="product pod">
<div class="image container">
<a href="catalogue/tipping-the-velvet 999/index.html"><img alt="Tipping the Velvet" clas</pre>
s="thumbnail" src="media/cache/26/0c/260c6ae16bce31c8f8c95daddd9f4a1c.jpg"/></a>
</div>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<h3><a href="catalogue/tipping-the-velvet 999/index.html" title="Tipping the Velvet">Tip
ping the Velvet</a></h3>
<div class="product price">
£53.74
<i class="icon-ok"></i>
```

<form class="form-horizontal" method="get">

```
In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/soumission 998/index.html"><img alt="Soumission" class="thumbnail" sr</pre>
c="media/cache/3e/ef/3eef99c9d9adef34639f510662022830.jpg"/></a>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<h3><a href="catalogue/soumission 998/index.html" title="Soumission">Soumission</a></h3>
<div class="product price">
£50.10
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
</1i>
<article class="product pod">
<div class="image container">
<a href="catalogue/sharp-objects 997/index.html"><img alt="Sharp Objects" class="thumbna</pre>
il" src="media/cache/32/51/3251cf3a3412f53f339e42cac2134093.jpg"/></a>
</div>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/sharp-objects 997/index.html" title="Sharp Objects">Sharp Objects
<div class="product price">
£47.82
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
```

</form>

```
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/sapiens-a-brief-history-of-humankind 996/index.html"><img alt="Sapien"
s: A Brief History of Humankind" class="thumbnail" src="media/cache/be/a5/bea5697f2534a2
f86a3ef27b5a8c12a6.jpg"/></a>
</div>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/sapiens-a-brief-history-of-humankind 996/index.html" title="Sapie
ns: A Brief History of Humankind">Sapiens: A Brief History ...</a></h3>
<div class="product price">
£54.23
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/the-requiem-red 995/index.html"><img alt="The Requiem Red" class="thu
mbnail" src="media/cache/68/33/68339b4c9bc034267e1da611ab3b34f8.jpg"/></a>
</div>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<h3><a href="catalogue/the-requiem-red_995/index.html" title="The Requiem Red">The Requi
em Red </a ></h3>
<div class="product price">
£22.65
<i class="icon-ok"></i>
      In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product_pod">
```

```
<div class="image container">
<a href="catalogue/the-dirty-little-secrets-of-getting-your-dream-job 994/index.html"><i</pre>
mg alt="The Dirty Little Secrets of Getting Your Dream Job" class="thumbnail" src="medi
a/cache/92/27/92274a95b7c251fea59a2b8a78275ab4.jpg"/></a>
</div>
<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></i>
<h3><a href="catalogue/the-dirty-little-secrets-of-getting-your-dream-job 994/index.htm">dex.htm</a>
1" title="The Dirty Little Secrets of Getting Your Dream Job">The Dirty Little Secrets
...</a></h3>
<div class="product price">
£33.34
<i class="icon-ok"></i></i>
              In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-feminist-v">
ictoria-woodhull 993/index.html"><img alt="The Coming Woman: A Novel Based on the Life o
f the Infamous Feminist, Victoria Woodhull" class="thumbnail" src="media/cache/3d/54/3d5
4940e57e662c4dd1f3ff00c78cc64.jpg"/></a>
</div>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><h3><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-infamous-femini"><a href="catalogue/the-coming-woman-a-novel-based-on-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-of-the-life-
st-victoria-woodhull 993/index.html" title="The Coming Woman: A Novel Based on the Life
of the Infamous Feminist, Victoria Woodhull">The Coming Woman: A ...</a></h3>
<div class="product price">
£17.93
<i class="icon-ok"></i>
               In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<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-</pre>
the-1936-berlin-olympics 992/index.html"><img alt="The Boys in the Boat: Nine Americans
and Their Epic Quest for Gold at the 1936 Berlin Olympics" class="thumbnail" src="media/
cache/66/88/66883b91f6804b2323c8369331cb7dd1.jpg"/></a>
</div>
<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></i>
<h3><a href="catalogue/the-boys-in-the-boat-nine-americans-and-their-epic-quest-for-gold">+ h3><a href="catalogue/the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-in-the-boys-
-at-the-1936-berlin-olympics 992/index.html" title="The Boys in the Boat: Nine Americans
and Their Epic Quest for Gold at the 1936 Berlin Olympics">The Boys in the ...</a></h3>
<div class="product price">
£22.60
<i class="icon-ok"></i>
              In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/the-black-maria 991/index.html"><img alt="The Black Maria" class="thu
mbnail" src="media/cache/58/46/5846057e28022268153beff6d352b06c.jpg"/></a>
</div>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/the-black-maria 991/index.html" title="The Black Maria">The Black
Maria</a></h3>
<div class="product price">
£52.15
<i class="icon-ok"></i>
              In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/starving-hearts-triangular-trade-trilogy-1 990/index.html"><img alt</pre>
="Starving Hearts (Triangular Trade Trilogy, #1)" class="thumbnail" src="media/cache/be/
```

f4/bef44da28c98f905a3ebec0b87be8530.jpg"/></a>

```
</div>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/starving-hearts-triangular-trade-trilogy-1 990/index.html" title
="Starving Hearts (Triangular Trade Trilogy, #1)">Starving Hearts (Triangular Trade ...
</a></h3>
<div class="product price">
£13.99
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/shakespeares-sonnets 989/index.html"><img alt="Shakespeare's Sonnets"</pre>
class="thumbnail" src="media/cache/10/48/1048f63d3b5061cd2f424d20b3f9b666.jpg"/></a>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/shakespeares-sonnets 989/index.html" title="Shakespeare's Sonnet
s">Shakespeare's Sonnets</a></h3>
<div class="product price">
£20.66
<i class="icon-ok"></i></i>
      In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
</1i>
<article class="product pod">
<div class="image container">
<a href="catalogue/set-me-free 988/index.html"><img alt="Set Me Free" class="thumbnail"</pre>
src="media/cache/5b/88/5b88c52633f53cacf162c15f4f823153.jpg"/></a>
</div>
<i class="icon-star"></i>
<i class="icon-star"></i>
```

<i class="icon-star"></i></i>

```
<i class="icon-star"></i>
<i class="icon-star"></i>
<h3><a href="catalogue/set-me-free 988/index.html" title="Set Me Free">Set Me Free</a></
<div class="product price">
£17.46
<i class="icon-ok"></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/scott-pilgrims-precious-little-life-scott-pilgrim-1 987/index.html"><</pre>
img alt="Scott Pilgrim's Precious Little Life (Scott Pilgrim #1)" class="thumbnail" src
="media/cache/94/b1/94b1b8b244bce9677c2f29ccc890d4d2.jpg"/></a>
</div>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/scott-pilgrims-precious-little-life-scott-pilgrim-1 987/index.htm">1 987/index.htm</a>
l" title="Scott Pilgrim's Precious Little Life (Scott Pilgrim #1)">Scott Pilgrim's Preci
ous Little ...</a></h3>
<div class="product price">
£52.29
<i class="icon-ok"></i>
       In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<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 Sta
rt Again" class="thumbnail" src="media/cache/81/c4/81c4a973364e17d01f217e1188253d5e.jp
q"/></a>
</div>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
```

```
<h3><a href="catalogue/rip-it-up-and-start-again 986/index.html" title="Rip it Up and St
art Again">Rip it Up and ...</a></h3>
<div class="product price">
£35.02
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
d-1981-1991 985/index.html"><img alt="Our Band Could Be Your Life: Scenes from the Ameri
can Indie Underground, 1981-1991" class="thumbnail" src="media/cache/54/60/54607fe894589
7cdcced0044103b10b6.jpg"/></a>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
round-1981-1991 985/index.html" title="Our Band Could Be Your Life: Scenes from the Amer
ican Indie Underground, 1981-1991">Our Band Could Be ...</a></h3>
<div class="product price">
£57.25
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/olio 984/index.html"><img alt="Olio" class="thumbnail" src="media/cac</pre>
he/55/33/553310a7162dfbc2c6d19a84da0df9e1.jpg"/></a>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/olio 984/index.html" title="Olio">Olio</a></h3>
<div class="product price">
£23.88
```

```
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
</1i>
<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: The Best Science Fiction Stories 1800-1849" class="thumbnail" src</pre>
="media/cache/09/a3/09a3aef48557576e1a85ba7efea8ecb7.jpg"/></a>
</div>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/mesaerion-the-best-science-fiction-stories-1800-1849 983/index.ht"> 983/index.ht</a>
ml" title="Mesaerion: The Best Science Fiction Stories 1800-1849">Mesaerion: The Best Sc
ience ... </a></h3>
<div class="product price">
£37.59
<i class="icon-ok"></i></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/libertarianism-for-beginners 982/index.html"><img alt="Libertarianism"</pre>
for Beginners" class="thumbnail" src="media/cache/0b/bc/0bbcd0a6f4bcd81ccb1049a52736406
e.jpg"/></a>
</div>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<h3><a href="catalogue/libertarianism-for-beginners 982/index.html" title="Libertarianis"
m for Beginners">Libertarianism for Beginners</a></h3>
<div class="product price">
£51.33
<i class="icon-ok"></i>
```

```
In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<article class="product pod">
<div class="image container">
<a href="catalogue/its-only-the-himalayas 981/index.html"><img alt="It's Only the Himala
yas" class="thumbnail" src="media/cache/27/a5/27a53d0bb95bdd88288eaf66c9230d7e.jpg"/></a
</div>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i>
<i class="icon-star"></i></i>
<i class="icon-star"></i></i>
<h3><a href="catalogue/its-only-the-himalayas 981/index.html" title="It's Only the Himal
ayas">It's Only the Himalayas</a></h3>
<div class="product price">
£45.17
<i class="icon-ok"></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">Ad
d to basket</button>
</form>
</div>
</article>
<div>
class="current">
              Page 1 of 50
          <a href="catalogue/page-2.html">next</a>
</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.</pre>
1.min.js"><\/script>')</script>
<!-- Twitter Bootstrap -->
<script src="static/oscar/js/bootstrap3/bootstrap.min.js" type="text/javascript"></scrip</pre>
```

```
t>
<!-- Oscar -->
<script charset="utf-8" src="static/oscar/js/oscar/ui.js" type="text/javascript"></scrip</pre>
<script charset="utf-8" src="static/oscar/js/bootstrap-datetimepicker/bootstrap-datetime"</pre>
picker.js" type="text/javascript"></script>
<script charset="utf-8" src="static/oscar/js/bootstrap-datetimepicker/locales/bootstrap-</pre>
datetimepicker.all.js" type="text/javascript"></script>
<script type="text/javascript">
            $(function() {
    oscar.init();
    oscar.search.init();
            });
        </script>
<!-- Version: N/A -->
</body>
</html>
```

#### Lets explore the soup a bit

In [19]:

Out[19]:

In [20]:

soup.article.h3.a

Light in the  $\dots </a>$ 

'A Light in the ...'

soup.article.h3.a.text

```
In [7]:
         soup.title
         <title>
 Out[7]:
             All products | Books to Scrape - Sandbox
         </title>
         soup.find('title')
In [8]:
         <title>
 Out[8]:
             All products | Books to Scrape - Sandbox
         </title>
In [9]:
         soup.title.string
                All products | Books to Scrape - Sandbox\n'
 Out[9]:
In [10]:
          soup.title.text
               All products | Books to Scrape - Sandbox\n'
Out[10]:
          soup.title.string.strip()
In [11]:
          'All products | Books to Scrape - Sandbox'
Out[11]:
In [17]:
          soup.body.h1
         <h1>All products</h1>
Out[17]:
         First book title:
```

<a href="catalogue/a-light-in-the-attic 1000/index.html" title="A Light in the Attic">A

```
##### but the text is cut !!!
In [21]:
         soup.article.h3.a["title"]
In [22]:
         'A Light in the Attic'
Out [22]:
In [23]:
         type(soup.article.h3.a["title"])
Out[23]:
         Explore all books in the same time:
In [24]: | books = soup.find all("article", class = "product pod")
In [26]: for book in books:
             print(book.h3.a["title"])
         A Light in the Attic
         Tipping the Velvet
         Soumission
         Sharp Objects
         Sapiens: A Brief History of Humankind
         The Requiem Red
         The Dirty Little Secrets of Getting Your Dream Job
         The Coming Woman: A Novel Based on the Life of the Infamous Feminist, Victoria Woodhull
         The Boys in the Boat: Nine Americans and Their Epic Quest for Gold at the 1936 Berlin Ol
         ympics
         The Black Maria
         Starving Hearts (Triangular Trade Trilogy, #1)
         Shakespeare's Sonnets
         Set Me Free
         Scott Pilgrim's Precious Little Life (Scott Pilgrim #1)
         Rip it Up and Start Again
         Our Band Could Be Your Life: Scenes from the American Indie Underground, 1981-1991
         Olio
         Mesaerion: The Best Science Fiction Stories 1800-1849
         Libertarianism for Beginners
         It's Only the Himalayas
In [29]: #### Lets explore more
         soup.select("div")[0]
In [30]:
         <div class="page inner">
Out[30]:
         <div class="row">
         <div class="col-sm-8 h1"><a href="index.html">Books to Scrape</a><small> We love being s
         craped!</small>
         </div>
         </div>
         </div>
In [31]: soup.select(".product price")
         [<div class="product price">
Out[31]:
          £51.77
          <i class="icon-ok"></i></i>
                  In stock
```

Out[20]:

```
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>.
<div class="product price">
£53.74
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£50.10
<i class="icon-ok"></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£47.82
<i class="icon-ok"></i></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£54.23
<i class="icon-ok"></i>
      In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£22.65
<i class="icon-ok"></i>
      In stock
```

<form>

```
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£33.34
<i class="icon-ok"></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£17.93
<i class="icon-ok"></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£22.60
<i class="icon-ok"></i></i>
      In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£52.15
<i class="icon-ok"></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£13.99
<i class="icon-ok"></i>
      In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
```

```
dd to basket</button>
</form>
</div>,
<div class="product price">
£20.66
<i class="icon-ok"></i></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£17.46
<i class="icon-ok"></i>
       In stock
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£52.29
<i class="icon-ok"></i></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£35.02
<i class="icon-ok"></i></i>
      In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
dd to basket</button>
</form>
</div>,
<div class="product price">
£57.25
<i class="icon-ok"></i>
       In stock
<form>
<button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
```

dd to basket</button>

```
</form>
        </div>,
        <div class="product price">
        £23.88
        <i class="icon-ok"></i>
              In stock
        <form>
        <button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
       dd to basket</button>
        </form>
        </div>,
        <div class="product price">
        £37.59
        <i class="icon-ok"></i>
              In stock
        < form >
        <button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
       dd to basket</button>
        </form>
        </div>,
        <div class="product price">
        £51.33
        <i class="icon-ok"></i>
              In stock
        <form>
        <button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
       dd to basket</button>
        </form>
        </div>,
        <div class="product price">
        £45.17
        <i class="icon-ok"></i></i>
              In stock
        <form>
        <button class="btn btn-primary btn-block" data-loading-text="Adding..." type="submit">A
       dd to basket</button>
        </form>
        </div>]
       len(soup.select(".product price"))
In [34]:
Out[34]:
       len(books)
In [35]:
       20
Out[35]:
```

```
In [37]: titles = []
In [38]:
         ratings = []
In [39]:
          prices = []
In [52]:
          books dict = { 'Title': [], 'Price': [], 'Rating': [] }
          ratings = {'One': 1, 'Two': 2, 'Three': 3, 'Four': 4, 'Five': 5}
In [40]: books = soup.find all("article", class = "product pod")
In [41]: books[0].find(class = "price color").string.strip('£')
          '51.77'
Out[41]:
In [45]:
          books[0].find(class = "star-rating").attrs['class'][1]
          'Three'
Out[45]:
 In [ ]: for book in books:
              # Find the title and price
              title.append(book.h3.a["title"])
              prices.append(float(book.find(class = "price color").string.strip('f')))
              # Find the star rating and user the mapping to convert it to numbers
              stars html = book.find(class = "star-rating")
              ratings.append(ratings.get(stars html.attrs['class'][1], 0))
In [53]: for book html in soup.find all(class = "product pod"):
                   # Find the title and price
                  books dict['Title'].append(book html.find("h3").find("a").string)
                  books dict['Price'].append(float(book html.find(class = "price color").string.s
                   # Find the star rating and user the mapping to convert it to numbers
                  stars html = book html.find(class = "star-rating")
                  books dict['Rating'].append(ratings.get(stars html.attrs['class'][1], 0))
In [54]: pd.DataFrame.from dict(books dict)
Out [54]:
                                      Title Price Rating
           0
                             A Light in the ...
                                           51.77
                                                      3
                           Tipping the Velvet 53.74
           2
                                Soumission 50.10
                                                      1
           3
                              Sharp Objects 47.82
           4
                     Sapiens: A Brief History ... 54.23
                                                     5
           5
                                                      1
                            The Requiem Red 22.65
           6
                     The Dirty Little Secrets ...
                                           33.34
                                                     4
           7
                      The Coming Woman: A ...
                                           17.93
           8
                           The Boys in the ...
                                           22.60
                                                     4
           9
                             The Black Maria
                                           52.15
                                                      1
             Starving Hearts (Triangular Trade ...
                                           13.99
                                                      2
          11
                       Shakespeare's Sonnets 20.66
```

12	Set Me Free	17.46	5
13	Scott Pilgrim's Precious Little	52.29	5
14	Rip it Up and	35.02	5
15	Our Band Could Be	57.25	3
16	Olio	23.88	1
17	Mesaerion: The Best Science	37.59	1
18	Libertarianism for Beginners	51.33	2
19	It's Only the Himalayas	45.17	2

In [55]: tableau = pd.DataFrame.from\_dict(books\_dict)

#### In [57]: tableau.head()

Out[57]:

# Title Price Rating 0 A Light in the ... 51.77 3 1 Tipping the Velvet 53.74 1 2 Soumission 50.10 1 3 Sharp Objects 47.82 4 4 Sapiens: A Brief History ... 54.23 5

## In [58]: tableau.head(10)

#### Out[58]:

	Title	Price	Rating
0	A Light in the	51.77	3
1	Tipping the Velvet	53.74	1
2	Soumission	50.10	1
3	Sharp Objects	47.82	4
4	Sapiens: A Brief History	54.23	5
5	The Requiem Red	22.65	1
6	The Dirty Little Secrets	33.34	4
7	The Coming Woman: A	17.93	3
8	The Boys in the	22.60	4
9	The Black Maria	52.15	1

#### In [59]: tableau.tail(10)

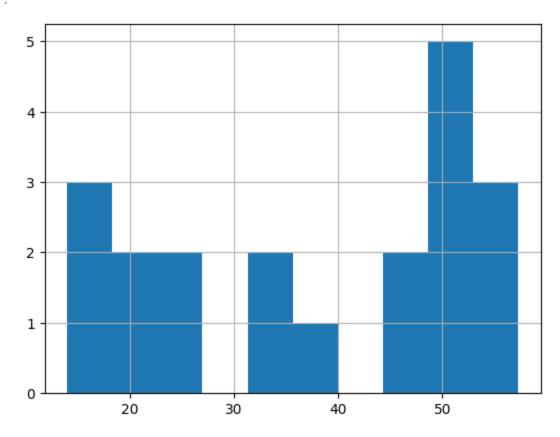
#### Out[59]:

	Title	Price	Rating
10	Starving Hearts (Triangular Trade	13.99	2
11	Shakespeare's Sonnets	20.66	4
12	Set Me Free	17.46	5
13	Scott Pilgrim's Precious Little	52.29	5
14	Rip it Up and	35.02	5

15	Our Band Could Be	57.25	3
16	Olio	23.88	1
17	Mesaerion: The Best Science	37.59	1
18	Libertarianism for Beginners	51.33	2
19	It's Only the Himalayas	45.17	2

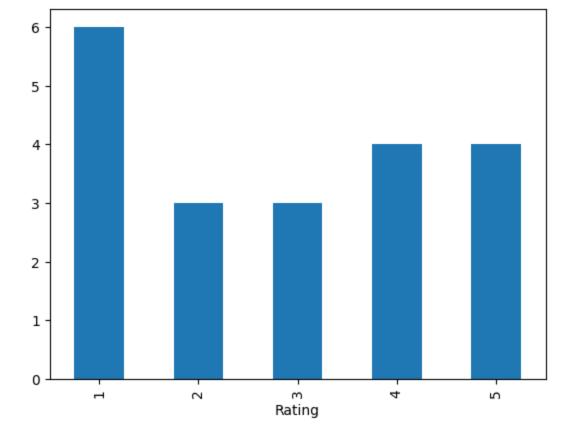
```
In [60]: tableau['Price'].hist()
```

Out[60]: <AxesSubplot:>



```
In [62]: tableau.groupby("Rating").count()["Title"].plot(kind="bar")
```

Out[62]: <AxesSubplot:xlabel='Rating'>



```
In [63]: tableau.to_csv("books.csv")
In []:
```