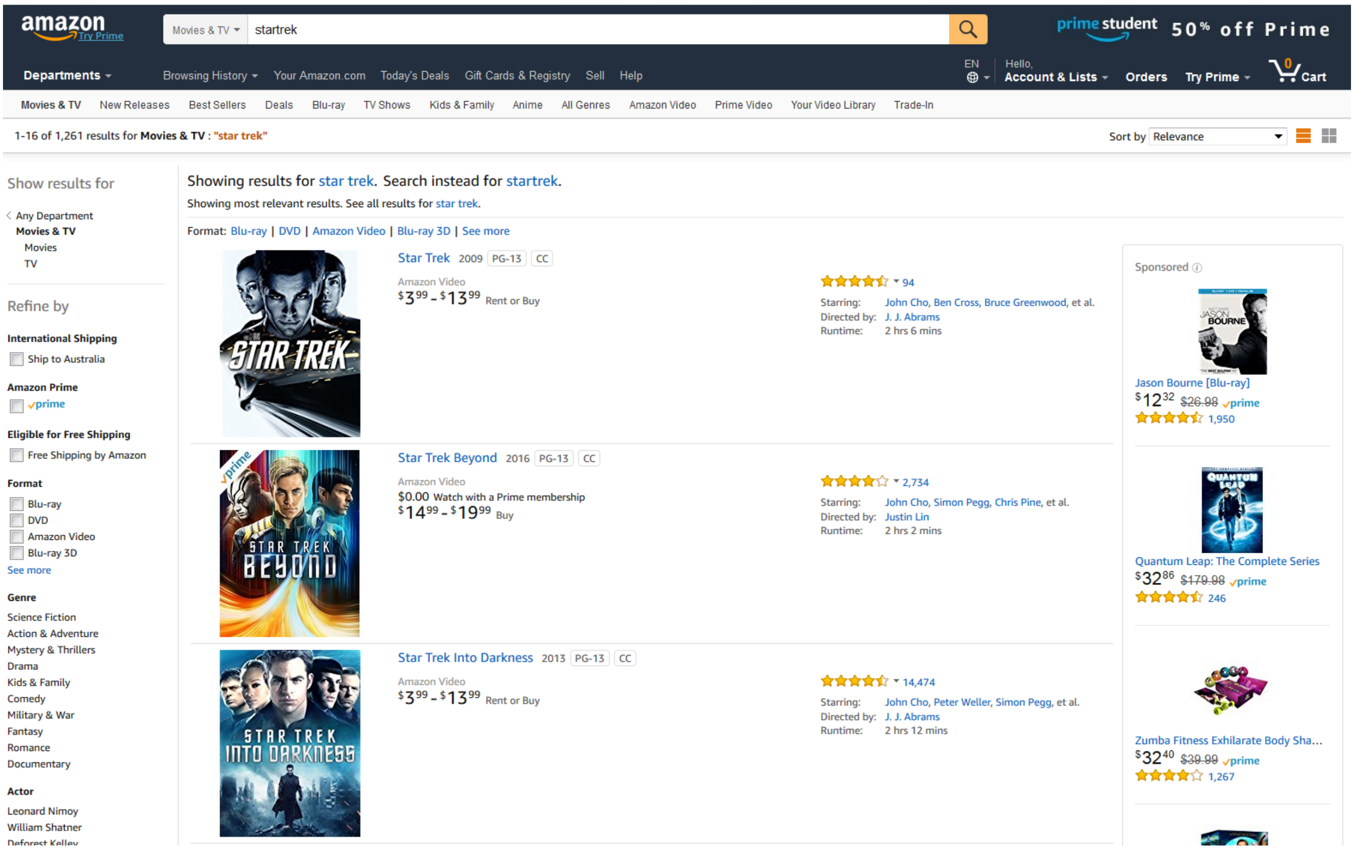
Project 5: Amazon web crawling in Python + REGEX

In this project we use BS- BeautifulSoup and REGEX to find some products by crawling an Amazon.com page

We'll cover the following

- Solution

A **Web crawler**, sometimes called a spider, is an Internet bot that systematically browses the World Wide Web, typically for the purpose of Web indexing (web spidering). In this project, we crawl the amazon.com website > Movies & TV > 'startrek' (see the image below). Then, we find the list of movies with 'bonus' content.



startrek

1-16 of 1,261 results for **Movies & TV** : "star trek"

Sort by Relevance

Show results for

Any Department
Movies & TV
Movies
TV

Refine by

International Shipping
□ Ship to Australia

Amazon Prime
□ ✓prime

Eligible for Free Shipping
□ Free Shipping by Amazon

Format
□ Blu-ray
□ DVD
□ Amazon Video
□ Blu-ray 3D
See more

Genre
Science Fiction
Action & Adventure
Mystery & Thrillers
Drama
Kids & Family
Comedy
Military & War
Fantasy
Romance
Documentary

Actor
Leonard Nimoy
William Shatner
Deforest Kelley

Showing results for star trek. Search instead for startrek.

Showing most relevant results. See all results for star trek.

Format: Blu-ray | DVD | Amazon Video | Blu-ray 3D | See more

Star Trek 2009 PG-13 CC
Amazon Video
$\$3^{99}$ - $\$13^{99}$ Rent or Buy
★★★★☆ 94
Starring: John Cho, Ben Cross, Bruce Greenwood, et al.
Directed by: J. J. Abrams
Runtime: 2 hrs 6 mins

Star Trek Beyond 2016 PG-13 CC
Amazon Video
$0.00 Watch with a Prime membership
$\$14^{99}$ - $\$19^{99}$ Buy
★★★★☆ 2,734
Starring: John Cho, Simon Pegg, Chris Pine, et al.
Directed by: Justin Lin
Runtime: 2 hrs 2 mins

Star Trek Into Darkness 2013 PG-13 CC
Amazon Video
$\$3^{99}$ - $\$13^{99}$ Rent or Buy
★★★★☆ 14,474
Starring: John Cho, Peter Weller, Simon Pegg, et al.
Directed by: J. J. Abrams
Runtime: 2 hrs 12 mins

Sponsored

Jason Bourne [Blu-ray]
$\$12^{32}$ ~~$26.98~~ ✓prime
★★★★☆ 1,950

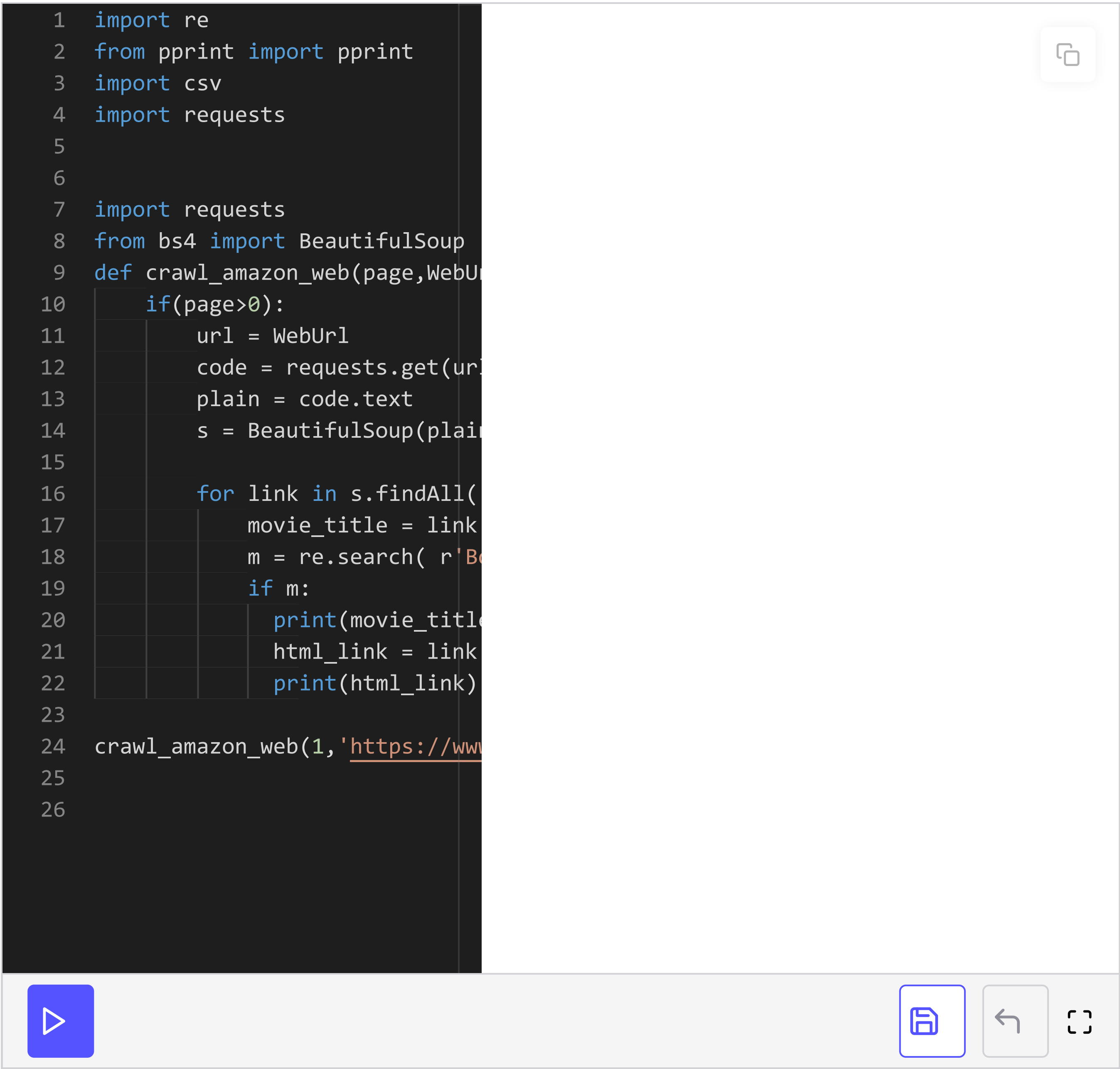
Quantum Leap: The Complete Series
$\$32^{86}$ ~~$179.98~~ ✓prime
★★★★☆ 246

Zumba Fitness Exhilarate Body Sha...
$\$32^{40}$ ~~$39.99~~ ✓prime
★★★★☆ 1,267

Amazon web scraping for Startrek DVD movies with `bonus' content

Solution

The problem solution uses BeautifulSoup. A detailed explanation of the code is out-of-scope for this course (hint: read the BS docs). In this code, we first extract HTML data and format/convert into BS's table using BS's `BeautifulSoup()` function, then find and extract the movies from the HTML code.



```
import re
from pprint import pprint
import csv
import requests


import requests
from bs4 import BeautifulSoup
def crawl_amazon_web(page,WebU
  if(page>0):
    url = WebUrl
    code = requests.get(ur
    plain = code.text
    s = BeautifulSoup(plai

    for link in s.findAll(
      movie_title = link
      m = re.search( r'B
      if m:
       print(movie_titl
       html_link = link
       print(html_link)

crawl_amazon_web(1,'https://ww


```

Expected output (Startrek movies with bonus content) :

```
Star Wars: The Force Awakens (Plus Bonus Features)
https://www.amazon.com/Star-Wars-Force-Awakens-Features/dp/B019EG1TC8
Rogue One: A Star Wars Story (With Bonus Content)
https://www.amazon.com/Rogue-One-Story-Bonus-Content/dp/B01N7FYJ7H
```

Easy!

This solution has been **adopted and extended** from the Dev.to post written by Pranay Das.