Pull Data from OMDB API

June 20, 2022

1 Packages

```
[]: import pandas as pd
  import numpy as np
  import requests
  from requests import TooManyRedirects
  import re
  import omdb
  import time
  from collections import Counter, defaultdict
```

2 API Set-up

```
[]: api_key = "2831f563" # Jimmy's key - limit 1000 calls a day
omdb.set_default('apikey', api_key)

# include tomatoes data by default
#omdb.set_default('tomatoes', True)
```

3 Pulling Data from API

```
[]: # set timeout of 5 seconds for this request
    # Pull 500 pages of movies (5000 movies) with the word 'one' in the title
imdb_ids = []
for i in range(1,501):
    year_df = pd.DataFrame(omdb.search_movie('one', page=i, timeout=5))
    # Store the ids in a list
    imdb_ids.append(year_df['imdb_id'].tolist())
imdb_ids = sum(imdb_ids, [])
```

```
[]: # Use ids to obtain movie information -
movies_info = pd.DataFrame([omdb.imdbid(i) for i in imdb_ids])

# View the dataframe
movies_info.sample(15)
```

```
[]:
                                                                            rated \
                                                          title
                                                                 year
     3465
                                                One More River
                                                                 1964
                                                                              N/A
     4669
               The Mysterious Death of the Man with One Hand
                                                                              N/A
                                                                 2020
    2459
                                             One of These Days
                                                                 1997
                                                                              N/A
                                                Murder Act One
                                                                 2003
    2029
                                                                              N/A
    2787
                                               One More Spring
                                                                 1992
                                                                              N/A
    3710
                                      The Verse: One Night Man
                                                                 2016
                                                                              N/A
    3008
                                                       One Kiss
                                                                 1929
                                                                              N/A
    195
                                                                 1971
                         Zatoichi and the One-Armed Swordsman
                                                                       Not Rated
    3977
                                                One Way Single
                                                                 2013
                                                                              N/A
    3054
                                    From One Place to Another
                                                                 2019
                                                                              N/A
    3545
                                            One Step at a Time
                                                                 2017
                                                                              N/A
    3836
           Dream with Me: One Year in America's Public Sc...
                                                                            N/A
     1048
                                       WWE: DX: One Last Stand
                                                                 2011
                                                                               PG
                                             A Song for No One
    4161
                                                                 2011
                                                                              N/A
                                 One Step Behind the Seraphim
     131
                                                                              N/A
                                                                 2017
              released runtime
                                                                  genre
           24 Apr 1963
                          60 min
                                                            Documentary
     3465
     4669
                   N/A
                           8 min
                                                      Animation, Short
    2459
                   N/A
                          10 min
                                                                  Short
    2029
           27 Sep 2003
                          11 min
                                                           Short, Crime
    2787
                   N/A
                             N/A
                                                                 Comedy
    3710
           02 Dec 2016
                           4 min
                                                           Short, Music
     3008
           01 Jun 1929
                           3 min
                                                           Short, Music
     195
           13 Jan 1971
                          94 min
                                              Action, Adventure, Drama
     3977
                   N/A
                           7 min
                                                  Short, Comedy, Drama
     3054
                   N/A
                             N/A
                                                    Documentary, Short
           30 Oct 2017
     3545
                             N/A
                                                                    N/A
     3836
                   N/A
                          23 min
                                  Documentary, Short, Biography, News
     1048
           05 Apr 2011
                         118 min
                                                          Action, Sport
    4161
           05 Aug 2011
                          15 min
                                                         Short, Musical
     131
           22 Sep 2017
                         150 min
                                                                  Drama
                                            director
    3465
                       Beryl Fox, Douglas Leiterman
    4669
                               L. Michael Mansfield
    2459
                                      Scott Umsteadt
    2029
                                  Steven Warrington
    2787
                                       Kirk Browning
           Mathieu Perrault Lapierre, Simon Plante
    3710
     3008
                         David Aylott, E.F. Symmons
     195
                                   Kimiyoshi Yasuda
    3977
                                       Andrew Mitrak
     3054
                                     Michael Robayo
     3545
                                        Lara Goodman
     3836
                    Kimberly Goodman, Henry Hebert
```

```
1048
                                     Kevin Dunn
4161
                                    Ryan Glista
131
                                   Daniel Sandu
                                                  writer \
3465
                                                      N/A
4669
                                    L. Michael Mansfield
2459
                                          Scott Umsteadt
2029
                                       Steven Warrington
2787
          Robert Nathan (novel), J. Ranelli (teleplay)
3710
                                                      N/A
3008
195
      Kan Shimozawa, Takayuki Yamada, Kimiyoshi Yasuda
3977
                                           Robert J. Lee
3054
                                                      N/A
3545
                                                      N/A
3836
                                                      N/A
1048
                                                      N/A
4161
                                             Ryan Glista
131
                                            Daniel Sandu
                                                    actors
                                                           \
3465
      Ralph Bunche, James Meredith, James R. Venable...
4669
                                   Bobby Butler, Moe Rock
2459
           Scott Umsteadt, Julie Staley, Dennis Bingham
2029
      Mark Intrieri, Anna Bartos, Michael N. Malfita...
2787
                       Kimberli Colbourne, Jason Robards
3710
      Pierre-François Bouffard, Damien Robert, Cathe...
3008
                                                       N/A
195
           Shintarô Katsu, Jimmy Wang Yu, Watako Hamaki
3977
                                  Jay Myers, Hope Shanthi
3054
                                           Anne Humanfeld
3545
                                                       N/A
3836
1048
       Bob Barker, Mark Calaway, John Cena, Mike Chioda
4161
                Sophie Dillon, Rita Frenzel, Ryan Glista
131
             Stefan Iancu, Vlad Ivanov, Toto Dumitrescu
                                                      plot
                                                           ... metascore \
3465
      A film essay, filmed in the cinema verité styl...
                                                                  N/A
4669
      When a lonely detective investigating an unsol... ...
                                                                  N/A
                                                       N/A ...
2459
                                                                     N/A
2029
      A desperate young man hatches a dark plan to a... ...
                                                                  N/A
2787
                                                       N/A ...
                                                                     N/A
3710
                                                       N/A ...
                                                                     N/A
3008
                                                                     N/A
                                                       N/A ...
195
      Two of Japan and China's greatest heroic sword...
                                                                  N/A
```

```
3977
      Two lone travelers cross paths on a red-eye co... ...
                                                                    N/A
3054
      A short documentary focused on the process of ... ...
                                                                    N/A
3545
                                                        N/A ...
                                                                      N/A
      Dream with Me uncovers the deepest cracks of h... ...
3836
                                                                    N/A
1048 They are perhaps the most influential duo in s... ...
                                                                    N/A
4161
      The story of a lonely musician and the day his... ...
                                                                    N/A
131
      A group of freshmen in an orthodox college are... ...
                                                                    N/A
     imdb rating imdb votes
                                  imdb id
                                                            dvd box_office
                                             type
3465
             N/A
                                tt0236552
                                            movie
                                                            N/A
                                                                        N/A
4669
             N/A
                         N/A
                                                                        N/A
                               tt12343664
                                            movie
                                                            N/A
2459
             8.8
                            5
                                tt0119835
                                                            N/A
                                                                        N/A
                                            movie
2029
             6.9
                          10
                                tt0384360
                                            movie
                                                            N/A
                                                                        N/A
2787
             N/A
                         N/A
                                tt2245035
                                            movie
                                                            N/A
                                                                        N/A
3710
             N/A
                         N/A
                                tt6295054
                                                            N/A
                                                                        N/A
                                            movie
3008
             N/A
                         N/A
                                tt1321450
                                            movie
                                                            N/A
                                                                        N/A
195
             7.2
                       1,540
                                tt0066602
                                                   30 Nov 2016
                                            movie
                                                                        N/A
3977
             N/A
                         N/A
                                tt2619772
                                            movie
                                                            N/A
                                                                        N/A
3054
             N/A
                         N/A
                               tt10671708
                                                            N/A
                                                                        N/A
                                            movie
3545
             N/A
                         N/A
                                tt9066062
                                                            N/A
                                                                        N/A
                                            movie
3836
             N/A
                         N/A
                                tt2418206
                                            movie
                                                            N/A
                                                                        N/A
1048
             7.3
                                                                        N/A
                          68
                                tt1853732
                                            movie
                                                            N/A
4161
             N/A
                         N/A
                                tt7543174
                                                            N/A
                                                                        N/A
                                            movie
             8.2
131
                       3,070
                                tt5335314
                                           movie 05 Jan 2017
                                                                        N/A
     production website response
3465
            N/A
                     N/A
                              True
4669
            N/A
                     N/A
                              True
2459
            N/A
                     N/A
                              True
2029
            N/A
                     N/A
                              True
2787
            N/A
                     N/A
                              True
3710
            N/A
                     N/A
                              True
3008
            N/A
                     N/A
                              True
195
            N/A
                     N/A
                              True
3977
            N/A
                     N/A
                              True
3054
            N/A
                     N/A
                              True
                              True
3545
            N/A
                     N/A
3836
            N/A
                     N/A
                              True
1048
            N/A
                     N/A
                              True
4161
            N/A
                     N/A
                              True
            N/A
131
                     N/A
                              True
```

[15 rows x 25 columns]

[]: # Dimensions of the data frame movies_info.shape

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