

# Film success analysis: Investigate sentiment of movie plot and movie traits(running time,budget) that affects box office revenues and imdb ratings

## 1.0 Aims & objectives

### 1.1 Introduction

The popularity of film entertainment have brought out the needs of data analytical skills to market films. Film companies urged to find a precise prediction model to gain insight on how to target viewers. This research explores a suitable prediction model using sentiment analysis on movie plot description (with Natural Language Processing) and analyze movie running time, budget, box office, imdb ratings with data visualizing skills.

This project would be eye-opening as data analyzed is newest and unique. There are very few markets that have provided such insights.

The category of film to be analysed is science fiction movies. A heuristic method approach is made and our aims are re-evaluated by result of analysis.

Final visualisations and conclusions should be accessible to film business companies or someone whose area of interest is in film studies.

### 1.2 Aims and objectives

Contents to be analysed:

- Identify common words in science fiction movie plot
- Analyse if compound sentiment score of movie plot affects its rating
- Analyse if running time of movie and number of words in movie plot affects its rating
- Analyse if budget affects box office revenue

Generalized aims:

1. Decide data size required to make comparisons.
2. Acquire data by web scraping and perform data cleansing.
3. Complete data analysis to distinguish difference in each data.

### 1.3.1 Data requirements/Scope of work

- Around 60 films collected were analyzed. If there are too many films, prediction will be overloaded and difficult to distinguish difference.
- The movie infobox contains many titles where we can organize each into columns displaying each movie in row index (as Panda's data frame)

- Wikipedia has provided a list of movies in science fiction category, it contains just the right amount of films (60 films) and is up-to-date (2020-2022) therefore is chosen. In examining movies in such a 2-year period span would give an accurate analysis
- Initially, movie dataset from Kaggle is considered but due to weakness of having outdated movies it is better to scrape recent movies provided from Wikipedia.
- Content that we will not explore to prevent information overload:
  - director/starring actors
  - release dates
  - country origin

### 1.3.2 Limitations of the data chosen

#### 1) Restricted time period of collection

- The data specifies on a period of timeline meaning we will not be doing a very broad analysis but only an accurately scoped analysis. The downside includes that some data may be subject to change in future.

#### 2) Incomplete data and irrelevant information

- Some movie data are not fully uploaded by Wikipedia authors.
- There might be bias towards popular movies as more accurate information is uploaded
- Dataset contains future upcoming movies which has to be cleaned

#### 3) Anonymous authorship

- Wikipedia is a self-policing community where volunteers collaboratively make edits to an article. Most articles will have more than one author. Even though we could check history edits of users, these usernames might be fraudulently registered. In some cases, it is unable to verify the original source of information therefore we have to adapt some inaccuracy from misinterpretation such as running time, budget, box office.

### 1.3.2 Ethical consideration/Reuse of data

To ensure Wikipedia data is safe to scrape, we examined and passed the terms and conditions in:

- (robots.txt file) <https://en.wikipedia.org/robots.txt> which instructs how a web crawler should follow
- fulfilled (Wikipedia terms of use) [https://foundation.wikimedia.org/wiki/Terms\\_of\\_Use](https://foundation.wikimedia.org/wiki/Terms_of_Use) stating "the content is for general informational purposes only"
- Wikipedia says permission is granted to reuse and remodify its text under the terms of the Creative Commons Attribution-ShareAlike 3.0 license <https://creativecommons.org/licenses/by-sa/3.0>. The terms includes attribution to authors (therefore we gave appropriate credit in reference)

### 1.3.3 Potential implication of using such data to present analysis

The data would potentially expose movie's negative side, this can result in incorrect assumptions and harm movie's reputation.

Therefore, the data are only used as:

- analyze movie's features without 1-on-1 comparison between specific movies
- the conclusions drawn does not represent exact criteria for success of a movie, but merely subjective.

## 2.1.1 Import BeautifulSoup library for web scrapping

```
In [1]: from bs4 import BeautifulSoup as bs
import requests
```

## 2.1.2 Getting info box details of a single film first

Here we get a request URL from wikipedia to scrape HTML of single movie named Archive(as it has all data we required)

```
In [2]: URL = requests.get("https://en.wikipedia.org/wiki/Archive_(film)")

# Convert to a beautiful soup object
soup = bs(URL.content)

# Get the table row texts in the infobox
infobox = soup.find(class_="infobox vevent")
infoTableRow = infobox.find_all("tr")
for row in infoTableRow:
    print(row.prettify())

<tr>
  <th class="infobox-above summary" colspan="2" style="font-size: 125%; font-style: italic;">
    Archive
  </th>
</tr>

<tr>
  <td class="infobox-image" colspan="2">
    <a class="image" href="/wiki/File:Archive_(film).jpg">
      
    </a>
    <div class="infobox-caption">
      Film poster
    </div>
  </td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    Directed by
  </th>
  <td class="infobox-data">
    <a href="/wiki/Gavin_Rothery_(film_creator)" title="Gavin Rothery (film creator)">
      Gavin Rothery
    </a>
  </td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    Written by
```

```

</th>
<td class="infobox-data">
  <a href="/wiki/Gavin_Rothery_(film_creator)" title="Gavin Rothery (film creator)">
    Gavin Rothery
  </a>
</td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    Produced by
  </th>
  <td class="infobox-data">
    <style data-mw-deduplicate="TemplateStyles:r1126788409">
      .mw-parser-output .plainlist ol,.mw-parser-output .plainlist ul{line-height:inherit;list-style:none;margin:0;padding:0}.mw-parser-output .plainlist ol li,.mw-parser-output .plainlist ul li{margin-bottom:0}
    </style>
    <div class="plainlist">
      <ul>
        <li>
          Cora Palfrey
        </li>
        <li>
          Philip Herd
        </li>
        <li>
          <a href="/wiki/Theo_James" title="Theo James">
            Theo James
          </a>
        </li>
      </ul>
    </div>
  </td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    Starring
  </th>
  <td class="infobox-data">
    <link href="mw-data:TemplateStyles:r1126788409" rel="mw-deduplicated-inline-style"/>
    <div class="plainlist">
      <ul>
        <li>
          Theo James
        </li>
        <li>
          <a href="/wiki/Stacy_Martin" title="Stacy Martin">
            Stacy Martin
          </a>
        </li>
        <li>
          <a href="/wiki/Rhona_Mitra" title="Rhona Mitra">
            Rhona Mitra
          </a>
        </li>
        <li>
          <a href="/wiki/Peter_Ferdinando" title="Peter Ferdinando">
            Peter Ferdinando
          </a>
        </li>
        <li>
          Richard Glover

```

```

    </li>
    <li>
      <a href="/wiki/Lia_Williams" title="Lia Williams">
        Lia Williams
      </a>
    </li>
    <li>
      <a href="/wiki/Toby_Jones" title="Toby Jones">
        Toby Jones
      </a>
    </li>
  </ul>
</div>
</td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    Cinematography
  </th>
  <td class="infobox-data">
    <a href="/wiki/Laurie_Rose_(cinematographer)" title="Laurie Rose (cinematographer)">
      Laurie Rose
    </a>
  </td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    Edited by
  </th>
  <td class="infobox-data">
    Adam Biskupski
  </td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    Music by
  </th>
  <td class="infobox-data">
    <a href="/wiki/Steven_Price_(composer)" title="Steven Price (composer)">
      Steven Price
    </a>
  </td>
</tr>

<tr>
  <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
    <div style="display: inline-block; line-height: 1.2em; padding: .1em 0;">
      Production
    <br/>
    companies
    </div>
  </th>
  <td class="infobox-data">
    <div style="vertical-align: middle;">
      <link href="mw-data:TemplateStyles:r1126788409" rel="mw-deduplicated-inline-style"/>
      <div class="plainlist">
        <ul>
          <li>
            Independent Films

```

```

        </li>
        <li>
            Head Gear Films
        </li>
        <li>
            Untapped Films
        </li>
    </ul>
</div>
</div>
</td>
</tr>

<tr>
    <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
        Distributed by
    </th>
    <td class="infobox-data">
        <a href="/wiki/Vertical_Entertainment" title="Vertical Entertainment">
            Vertical Entertainment
        </a>
    </td>
</tr>

<tr>
    <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em;">
        <div style="display: inline-block; line-height: 1.2em; padding: .1em 0;white-space: normal;">
            Release dates
        </div>
    </th>
    <td class="infobox-data">
        <link href="mw-data:TemplateStyles:r1126788409" rel="mw-deduplicated-inline-style"/>
        <div class="plainlist">
            <ul>
                <li>
                    10 July 2020
                    <span style="display:none">
                        (
                            <span class="bday dtstart published updated">
                                2020-07-10
                            </span>
                        )
                    </span>
                    (United States)
                </li>
                <li>
                    18 January 2021
                    <span style="display:none">
                        (
                            <span class="bday dtstart published updated">
                                2021-01-18
                            </span>
                        )
                    </span>
                    (United Kingdom)
                </li>
            </ul>
        </div>
    </td>
</tr>

<tr>
    <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65em"

```

```

m; ">
    <div style="display: inline-block; line-height: 1.2em; padding: .1em 0;white-space: no
rmal;">
        Running time
    </div>
</th>
<td class="infobox-data">
    105 minutes
</td>
</tr>

<tr>
    <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65e
m;">
        Country
    </th>
    <td class="infobox-data">
        United Kingdom
    </td>
</tr>

<tr>
    <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65e
m;">
        Language
    </th>
    <td class="infobox-data">
        English
    </td>
</tr>

<tr>
    <th class="infobox-label" scope="row" style="white-space: nowrap; padding-right: 0.65e
m;">
        Box office
    </th>
    <td class="infobox-data">
        $242,195
        <sup class="reference" id="cite_ref-BOM_1-0">
            <a href="#cite_note-BOM-1">
                [1]
            </a>
        </sup>
    </td>
</tr>

```

## 2.1.3 Assign table data contents to table heading titles in pairs

```

In [3]: # retrieve content of rows which only has an list,replace junk with empty space
def retrieve_row_content(rowContent):
    if rowContent.find("li"):
        return [li.get_text(" ", strip=True).replace("\xa0", " ") for li in rowContent.f
    else:
        return rowContent.get_text(" ", strip=True)

# declare an empty key value pair dictionary
movie_detail = {}

for rowNumber, row in enumerate(infoTableRow):
    #first row is title
    if rowNumber == 0:
        movie_detail['title'] = row.find("th").get_text(" ", strip=True)

```

```

# get table head and table data and put into dictionary
else:
    key = row.find_next("th").get_text(" ", strip=True)
    #clean value of table data with function
    value = retrieve_row_content(row.find("td"))
    movie_detail[key] = value

movie_detail

```

```

Out[3]: {'title': 'Archive',
'Directed by': 'Gavin Rothery',
'Written by': 'Gavin Rothery',
'Produced by': ['Cora Palfrey', 'Philip Herd', 'Theo James'],
'Starring': ['Theo James',
'Stacy Martin',
'Rhona Mitra',
'Peter Ferdinando',
'Richard Glover',
'Lia Williams',
'Toby Jones'],
'Cinematography': 'Laurie Rose',
'Edited by': 'Adam Biskupski',
'Music by': 'Steven Price',
'Production companies': ['Independent Films',
'Head Gear Films',
'Untapped Films'],
'Distributed by': 'Vertical Entertainment',
'Release dates': ['10 July 2020 ( 2020-07-10 ) (United States)',
'18 January 2021 ( 2021-01-18 ) (United Kingdom)'],
'Running time': '105 minutes',
'Country': 'United Kingdom',
'Language': 'English',
'Box office': '$242,195 [1]'}

```

## 2.2 Get each movie detail from list of science fiction movies in 2020

Each movie's URL from list is different, so we have to access into each movie's hyperlink in the big table and then extract its details.

```

In [4]: URL = requests.get("https://en.wikipedia.org/wiki/List_of_science_fiction_films_of_the_2

# Convert to a beautiful soup object
soup = bs(URL.content)

# Print out the HTML
print(soup.prettify())

```

```

<!DOCTYPE html>
<html class="client-nojs" dir="ltr" lang="en">
  <head>
    <meta charset="utf-8"/>
    <title>
      List of science fiction films of the 2020s - Wikipedia
    </title>
    <script>
      document.documentElement.className="client-js";RLCONF={"wgBreakFrames":false,"wgSepar
atorTransformTable":["",""],"wgDigitTransformTable":["",""],"wgDefaultDateFormat":"dm
y","wgMonthNames":["","January","February","March","April","May","June","July","Augus
t","September","October","November","December"],"wgRequestId":"5b5b4d37-7bee-4af4-af4b-f
8f6094f2577","wgCSPNonce":false,"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":f
alse,"wgNamespaceNumber":0,"wgPageName":"List_of_science_fiction_films_of_the_2020s","wg
Title":"List of science fiction films of the 2020s","wgCurRevisionId":1129236294,"wgRevi

```



```
sionId":1129236294,"wgArticleId":59873627,"wgIsArticle":true,"wgIsRedirect":false,"wgAct
ion":"view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":["CS1 Chinese-language
sources (zh)","Articles with short description","Short description is different from Wik
idata","Incomplete film lists","Articles using small message boxes","Incomplete lists fr
om October 2021",
"2020s science fiction films","Lists of 2020s films by genre","Lists of science fiction
films by decade"],["wgPageContentLanguage":"en","wgPageContentModel":"wikitext","wgReleva
ntPageName":"List_of_science_fiction_films_of_the_2020s","wgRelevantArticleId":5987362
7,"wgIsProbablyEditable":true,"wgRelevantPageIsProbablyEditable":true,"wgRestrictionEdi
t":[],"wgRestrictionMove":[],"wgFlaggedRevsParams":{"tags":{"status":{"levels":1}}},"wgV
isualEditor":{"pageLanguageCode":"en","pageLanguageDir":"ltr","pageVariantFallbacks":"e
n"},"wgMFDDisplayWikibaseDescriptions":{"search":true,"watchlist":true,"tagline":false,"n
earby":true},"wgWMESchemaEditAttemptStepOversample":false,"wgWMEPageLength":20000,"wgNot
iceProject":"wikipedia","wgVector2022PreviewPages":[],"wgMediaViewerOnClick":true,"wgMed
iaViewerEnabledByDefault":true,"wgPopupsFlags":10,"wgULSCurrentAutonym":"English","wgEdi
tSubmitButtonLabelPublish":true,"wgCentralAuthMobileDomain":false,"wgULSPosition":"inter
language",
"wgULSisCompactLinksEnabled":true,"wgWikibaseItemId":"Q61581573","GEHomepageSuggestedEdi
tsEnableTopics":true,"wgGETopicsMatchModeEnabled":false,"wgGESTructuredTaskRejectionReas
onTextInputEnabled":false};RLSTATE={"ext.globalCssJs.user.styles":"ready","site.style
s":"ready","user.styles":"ready","ext.globalCssJs.user":"ready","user":"ready","user.opt
ions":"loading","ext.cite.styles":"ready","skins.vector.styles.legacy":"ready","jquery.m
akeCollapsible.styles":"ready","ext.visualEditor.desktopArticleTarget.noscript":"read
y","ext.wikimediaBadges":"ready","ext.uls.interlanguage":"ready","wikibase.client.ini
t":"ready"};RLPAGEMODULES=["ext.cite.ux-enhancements","site","mediawiki.page.ready","jqu
ery.makeCollapsible","mediawiki.toc","skins.vector.legacy.js","mmv.head","mmv.bootstrap.
autostart","ext.visualEditor.desktopArticleTarget.init","ext.visualEditor.targetLoade
r","ext.eventLogging","ext.wikimediaEvents","ext.navigationTiming","ext.cx.eventlogging.
campaigns","ext.centralNotice.geoIP",
"ext.centralNotice.startUp","ext.gadget.ReferenceTooltips","ext.gadget.charinsert","ext.
gadget.extra-toolbar-buttons","ext.gadget.switcher","ext.centralauth.centralautologi
n","ext.popups","ext.echo.centralauth","ext.uls.compactlinks","ext.uls.interface","ext.g
rowthExperiments.SuggestedEditSession"];
</script>
<script>
    (RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.options@12s5i",functio
n($,jQuery,require,module){mw.user.tokens.set({"patrolToken":"+\\","watchToken":"+\\","c
srfToken":"+\\"});});});
</script>
<link href="/w/load.php?lang=en&modules=ext.cite.styles%7Cext.uls.interlanguage%7C
ext.visualEditor.desktopArticleTarget.noscript%7Cext.wikimediaBadges%7Cjquery.makeColla
psible.styles%7Cskins.vector.styles.legacy%7Cwikibase.client.init&only=styles&ski
n=vector" rel="stylesheet"/>
<script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&raw
=1&skin=vector">
</script>
<meta content="" name="ResourceLoaderDynamicStyles"/>
<link href="/w/load.php?lang=en&modules=site.styles&only=styles&skin=vecto
r" rel="stylesheet"/>
<meta content="MediaWiki 1.40.0-wmf.14" name="generator"/>
<meta content="origin" name="referrer"/>
<meta content="origin-when-crossorigin" name="referrer"/>
<meta content="origin-when-cross-origin" name="referrer"/>
<meta content="max-image-preview:standard" name="robots"/>
<meta content="telephone=no" name="format-detection"/>
<meta content="https://upload.wikimedia.org/wikipedia/commons/thumb/6/65/Sci-fi_film_i
con.svg/1200px-Sci-fi_film_icon.svg.png" property="og:image"/>
<meta content="1200" property="og:image:width"/>
<meta content="1200" property="og:image:height"/>
<meta content="https://upload.wikimedia.org/wikipedia/commons/thumb/6/65/Sci-fi_film_i
con.svg/800px-Sci-fi_film_icon.svg.png" property="og:image"/>
<meta content="800" property="og:image:width"/>
<meta content="800" property="og:image:height"/>
<meta content="https://upload.wikimedia.org/wikipedia/commons/thumb/6/65/Sci-fi_film_i
con.svg/640px-Sci-fi_film_icon.svg.png" property="og:image"/>
<meta content="640" property="og:image:width"/>
```

```
<meta content="640" property="og:image:height"/>
<meta content="width=1000" name="viewport"/>
<meta content="List of science fiction films of the 2020s - Wikipedia" property="og:ti
tle"/>
<meta content="website" property="og:type"/>
<link href="//upload.wikimedia.org" rel="preconnect"/>
<link href="//en.m.wikipedia.org/wiki/List_of_science_fiction_films_of_the_2020s" medi
a="only screen and (max-width: 720px)" rel="alternate"/>
<link href="/w/index.php?title=List_of_science_fiction_films_of_the_2020s&action=e
dit" rel="alternate" title="Edit this page" type="application/x-wiki"/>
<link href="/static/apple-touch/wikipedia.png" rel="apple-touch-icon"/>
<link href="/static/favicon/wikipedia.ico" rel="icon"/>
<link href="/w/opensearch_desc.php" rel="search" title="Wikipedia (en)" type="applicat
ion/opensearchdescription+xml"/>
<link href="//en.wikipedia.org/w/api.php?action=rsd" rel="EditURI" type="application/r
sd+xml"/>
<link href="https://creativecommons.org/licenses/by-sa/3.0/" rel="license"/>
<link href="https://en.wikipedia.org/wiki/List_of_science_fiction_films_of_the_2020s"
rel="canonical"/>
<link href="//meta.wikimedia.org" rel="dns-prefetch"/>
<link href="//login.wikimedia.org" rel="dns-prefetch"/>
</head>
<body class="skin-vector-legacy mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-sub
ject mw-editable page-List_of_science_fiction_films_of_the_2020s rootpage-List_of_scienc
e_fiction_films_of_the_2020s skin-vector action-view vector-feature-language-in-header-e
nabled vector-feature-language-in-main-page-header-disabled vector-feature-language-aler
t-in-sidebar-enabled vector-feature-sticky-header-disabled vector-feature-sticky-header-
edit-disabled vector-feature-page-tools-disabled vector-feature-page-tools-pinned-disabl
ed vector-feature-limited-width-enabled vector-feature-limited-width-content-enabled">
<div class="noprint" id="mw-page-base">
</div>
<div class="noprint" id="mw-head-base">
</div>
<div class="mw-body" id="content" role="main">
<a id="top">
</a>
<div id="siteNotice">
<!-- CentralNotice -->
<!--esi <esi:include src="/esitest-fa8a495983347898/content" /> -->
</div>
<div class="mw-indicators">
</div>
<h1 class="firstHeading mw-first-heading" id="firstHeading">
<span class="mw-page-title-main">
List of science fiction films of the 2020s
</span>
</h1>
<div class="vector-body" id="bodyContent">
<div class="noprint" id="siteSub">
From Wikipedia, the free encyclopedia
</div>
<div id="contentSub">
<div id="mw-content-subtitle">
</div>
</div>
<div id="contentSub2">
</div>
<div id="jump-to-nav">
</div>
<a class="mw-jump-link" href="#mw-head">
Jump to navigation
</a>
<a class="mw-jump-link" href="#searchInput">
Jump to search
</a>
<div class="mw-body-content mw-content-ltr" dir="ltr" id="mw-content-text" lang="e
```

```

n">
<div class="mw-parser-output">
  <p class="mw-empty-elt">
</p>
<style data-mw-deduplicate="TemplateStyles:r1097763485">
  .mw-parser-output .ambox{border:1px solid #a2a9b1;border-left:10px solid #36c;background-color:#fbfbfb;box-sizing:border-box}.mw-parser-output .ambox+link+.ambox,.mw-parser-output .ambox+link+style+.ambox,.mw-parser-output .ambox+link+link+.ambox,.mw-parser-output .ambox+.mw-empty-elt+link+.ambox,.mw-parser-output .ambox+.mw-empty-elt+link+style+.ambox,.mw-parser-output .ambox+.mw-empty-elt+link+link+.ambox{margin-top:-1px}html body.mediawiki .mw-parser-output .ambox.mbox-small-left{margin:4px 1em 4px 0;overflow:hidden;width:238px;border-collapse:collapse;font-size:88%;line-height:1.25em}.mw-parser-output .ambox-speedy{border-left:10px solid #b32424;background-color:#fee7e6}.mw-parser-output .ambox-delete{border-left:10px solid #b32424}.mw-parser-output .ambox-content{border-left:10px solid #f28500}.mw-parser-output .ambox-style{border-left:10px solid #fc3}.mw-parser-output .ambox-move{border-left:10px solid #9932cc}.mw-parser-output .ambox-protection{border-left:10px solid #a2a9b1}.mw-parser-output .ambox .mbox-text{border:none;padding:0.25em 0.5em;width:100%}.mw-parser-output .ambox .mbox-image{border:none;padding:2px 0 2px 0.5em;text-align:center}.mw-parser-output .ambox .mbox-imageright{border:none;padding:2px 0.5em 2px 0;text-align:center}.mw-parser-output .ambox .mbox-empty-cell{border:none;padding:0;width:1px}.mw-parser-output .ambox .mbox-image-div{width:52px}html.client-js body.skin-minerva .mw-parser-output .mbox-text-span{margin-left:23px!important}@media (min-width:720px){.mw-parser-output .ambox{margin:0 10%}}
</style>
<table class="plainlinks metadata ambox mbox-small-left ambox-notice" role="presentation" style="width: auto;">
  <tbody>
    <tr>
      <td class="mbox-image">
        
      </td>
      <td class="mbox-text" style="width: auto;">
        <div class="mbox-text-span">
          This film-related list is
          <a href="/wiki/Wikipedia:WikiProject_Lists#Incomplete_lists" title="Wikipedia:WikiProject Lists">
            incomplete
          </a>
          ; you can help by
          <a class="external text" href="https://en.wikipedia.org/w/index.php?title=List_of_science_fiction_films_of_the_2020s&action=edit">
            adding missing items
          </a>
          .
        <span class="date-container">
          <i>
            (
              <span class="date">
                October 2021
              </span>
            </i>
          </span>
        </div>
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```

```

put .hlist.inline dl,.mw-parser-output .hlist.inline ol,.mw-parser-output .hlist.inline
ul,.mw-parser-output .hlist dl dl,.mw-parser-output .hlist dl ol,.mw-parser-output .hlist
t dl ul,.mw-parser-output .hlist ol dl,.mw-parser-output .hlist ol ol,.mw-parser-output
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tput .hlist ul ul{display:inline}.mw-parser-output .hlist .mw-empty-li{display:none}.mw-
parser-output .hlist dt::after{content:" "}.mw-parser-output .hlist dd::after,.mw-parse
r-output .hlist li::after{content:" · ";font-weight:bold}.mw-parser-output .hlist dd:las
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i:last-child::after{content:none}.mw-parser-output .hlist dd dd:first-child::before,.mw-
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ut .plainlist ul li{margin-bottom:0}
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t:1.4em;font-size:88%;border-collapse:collapse;display:table}body.skin-minerva .mw-parse
r-output .sidebar{display:table!important;float:right!important;margin:0.5em 0 1em 1em!i
mportant}.mw-parser-output .sidebar-subgroup{width:100%;margin:0;border-spacing:0}.mw-pa
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.sidebar-none{float:none;clear:both;margin:0.5em 1em 1em 0}.mw-parser-output .sidebar-ou
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      Science
    <br/>
    fiction films
  </a>
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</tr>
<tr>
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    </a>
  </td>
</tr>
<tr>
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films">
      By decade
    </a>
  </th>
</tr>
<tr>
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          <a href="/wiki/List_of_science_fiction_films_before_1920" title="List of science fiction films before 1920">
            Pre 1920
          </a>
        </li>
        <li>
          <a href="/wiki/List_of_science_fiction_films_of_the_1920s" title="List of science fiction films of the 1920s">
            1920s
          </a>
        </li>
        <li>
          <a href="/wiki/List_of_science_fiction_films_of_the_1930s" title="List of science fiction films of the 1930s">
            1930s
          </a>
        </li>
        <li>
          <a href="/wiki/List_of_science_fiction_films_of_the_1940s" title="List of science fiction films of the 1940s">
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        </li>
        <li>
          <a href="/wiki/List_of_science_fiction_films_of_the_1950s" title="List of science fiction films of the 1950s">
            1950s
          </a>
        </li>
        <li>
          <a href="/wiki/List_of_science_fiction_films_of_the_1960s" title="List of science fiction films of the 1960s">

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```

1960s
</a>
</li>
<li>
<a href="/wiki/List_of_science_fiction_films_of_the_1970s" title="List of s
cience fiction films of the 1970s">
1970s
</a>
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cience fiction films of the 1980s">
1980s
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</li>
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cience fiction films of the 1990s">
1990s
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cience fiction films of the 2000s">
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</li>
<li>
<a href="/wiki/List_of_science_fiction_films_of_the_2010s" title="List of s
cience fiction films of the 2010s">
2010s
</a>
</li>
<li>
<a class="mw-selflink selflink">
2020s
</a>
</li>
<li>
<a href="/wiki/List_of_science_fiction_television_films" title="List of sci
ence fiction television films">
TV
</a>
</li>
</ul>
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yle"/>
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ontent:"[ "}.mw-parser-output .navbar-brackets::after{margin-left:-0.125em;content:"
]"}.mw-parser-output .navbar li{word-spacing:-0.125em}.mw-parser-output .navbar a>span,.
mw-parser-output .navbar a>abbr{text-decoration:inherit}.mw-parser-output .navbar-mini a
bbr{font-variant:small-caps;border-bottom:none;text-decoration:none;cursor:inherit}.mw-p
arser-output .navbar-ct-full{font-size:114%;margin:0 7em}.mw-parser-output .navbar-ct-mi
ni{font-size:114%;margin:0 4em}
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    <abbr title="View this template">
      v
    </abbr>
  </a>
</li>
<li class="nv-talk">
  <a href="/wiki/Template_talk:Scififilmlist" title="Template talk:Scififilml
ist">
    <abbr title="Discuss this template">
      t
    </abbr>
  </a>
</li>
<li class="nv-edit">
  <a class="external text" href="https://en.wikipedia.org/w/index.php?title=T
emplate:Scififilmlist&action=edit">
    <abbr title="Edit this template">
      e
    </abbr>
  </a>
</li>
</ul>
</div>
</td>
</tr>
</tbody>
</table>
<p>
  This is a
  <b>
    list of
    <a href="/wiki/Science_fiction_film" title="Science fiction film">
      science fiction films
    </a>
  </b>
  released in the
  <b>
    2020s
  </b>
  . These films include core elements of
  <a href="/wiki/Science_fiction" title="Science fiction">
    science fiction
  </a>
  , but can cross into other genres. They have been released to a cinema audience b
y the commercial
  <a href="/wiki/Film_industry" title="Film industry">
    film industry
  </a>
  and are widely distributed with reviews by reputable critics.
</p>
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ut .hlist #toc ul ul,.mw-parser-output .hlist .toc ul ul{margin:0}
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```

```
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    <div class="toctitle" dir="ltr" lang="en">
      <h2 id="mw-toc-heading">
        Contents
      </h2>
      <span class="toctogglespan">
        <label class="toctogglelabel" for="toctogglecheckbox">
          </label>
        </span>
      </div>
    <ul>
      <li class="toclevel-1 tocsection-1">
        <a href="#Listing">
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            1
          </span>
          <span class="toctext">
            Listing
          </span>
        </a>
      </li>
      <li class="toclevel-1 tocsection-2">
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          </span>
          <span class="toctext">
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        </a>
      </li>
      <li class="toclevel-1 tocsection-3">
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          </span>
          <span class="toctext">
            See also
          </span>
        </a>
      </li>
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          </span>
          <span class="toctext">
            Notes
          </span>
        </a>
      </li>
      <li class="toclevel-1 tocsection-5">
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          <span class="tocnumber">
            5
          </span>
          <span class="toctext">
            References
          </span>
        </a>
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</div>
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<div style="clear:both;">
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      [
    </span>
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      edit
    </a>
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      ]
    </span>
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      Years
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        2020
      </a>
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        2021
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        2022
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            <span class="vanchor-text">
              2020
            </span>
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      </th>
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        Director
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<th>
  Cast
</th>
<th>
  Country
</th>
<th>
  Subgenre/Notes
</th>
</tr>
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<td>
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  </i>
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k=1" title="Seth Larney (page does not exist)">
    Seth Larney
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  Australia
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    </a>
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  <a href="/wiki/Gavin_Rothery_(film_creator)" title="Gavin Rothery (film creato
r)">
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  ,
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<td>
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    <a href="/wiki/Josh_Gad" title="Josh Gad">
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sic">
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    ,
    <a href="/wiki/Alex_Winter" title="Alex Winter">

```

```

        Alex Winter
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    ,
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    </i>
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    ,
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<i>
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</td>
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    <a href="/wiki/Richard_St Stanley_(director)" title="Richard Stanley (director)">
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    United States
</td>
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</td>
</tr>
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            Freaks: You're One of Us

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        June 24,
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      2015
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ushed+Back+until+2017&rft.date=2016-06-23&rft.au=CaixinOnline&rft_id=http%3
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      Fleming Jr., Kevin (October 23, 2017).
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avatar-20171023/" rel="nofollow">
        "Michael Mann Talks New Project 'Comanche,' Praises 'Avatar'
      <span class="cs1-kern-right">
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      "
    </a>
    .
    <i>
      The Playlist
    </i>
    <span class="reference-accessdate">
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        February 22,
      </span>
      2022
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v  
</abbr>  
</a>  
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<abbr style=";;background:none transparent;border:none;box-shadow:none;pa dding:0;" title="Discuss this template">  
t  
</abbr>



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        </a>
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    <li class="nv-edit">
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Template:Films_by_genre&action=edit">
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dding:0;" title="Edit this template">
                e
            </abbr>
        </a>
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</ul>
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em">

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    </a>
    by
    <a href="/wiki/Film_genre" title="Film genre">
        genre
    </a>
    and themes
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</tr>
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                </li>
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ilms">
                        Martial arts
                    </a>
                </li>
                <li>
                    <a href="/wiki/List_of_mixed_martial_arts_films" title="List of mixed ma
rtial arts films">
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                    </a>
                </li>
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                    </a>
                </li>
                <li>
                    <a href="/wiki/Vigilante_film" title="Vigilante film">
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                    </a>
                </li>
            </ul>
        </li>
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m">
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    </a>
</li>
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    </a>
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ms">
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films">
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s">
        Children's
    </a>
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s">
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ries_set_in_Near_Eastern_and_Western_civilization" title="List of historical drama films
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turing slavery">
    Slavery
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</li>
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  <a href="/wiki/Lists_of_erotic_films" title="Lists of erotic films">
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or films">
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s" title="List of time travel works of fiction">
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Reduced expiry: false
Complications: [vary-revision-sha1, show-toc]
CPU time usage: 0.367 seconds
Real time usage: 0.509 seconds
Preprocessor visited node count: 1664/1000000
Post-expand include size: 41614/2097152 bytes
Template argument size: 884/2097152 bytes
Highest expansion depth: 18/100
Expensive parser function count: 2/500
Unstrip recursion depth: 1/20
Unstrip post-expand size: 45787/5000000 bytes
Lua time usage: 0.187/10.000 seconds
Lua memory usage: 4939485/52428800 bytes
Number of Wikibase entities loaded: 0/400
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<!--
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 28.68% 103.590      2 Template:Reflist
 21.26%  76.795      1 Template:Scififilmlist
 20.82%  75.220      1 Template:Sidebar
 20.79%  75.093      4 Template:Cite_news
 14.86%  53.658      1 Template:Short_description
 12.26%  44.292      1 Template:Inc-film
 11.14%  40.233      1 Template:Incomplete_list
   7.98%  28.830      2 Template:Pagetype
   7.87%  28.418      1 Template:Filmsbygenre
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        </a>
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        </a>
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        </a>
      </li>
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          Short description is different from Wikidata
        </a>
      </li>
      <li>
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        </a>
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              Not logged in
            </span>
          </li>
          <li class="mw-list-item" id="pt-anontalk">
            <a accesskey="n" href="/wiki/Special:MyTalk" title="Discussion about edits from this IP address [n]">
              <span>
                Talk
              </span>
            </a>
          </li>
          <li class="mw-list-item" id="pt-anoncontribs">
            <a accesskey="y" href="/wiki/Special:MyContributions" title="A list of edits made from this IP address [y]">
              <span>
                Contributions
              </span>
            </a>
          </li>
          <li class="mw-list-item" id="pt-createaccount">
            <a href="/w/index.php?title=Special:CreateAccount&returnto=List+of+science+fiction+films+of+the+2020s" title="You are encouraged to create an account and log in; however, it is not mandatory">
              <span>
                Create account
              </span>
            </a>
          </li>
          <li class="mw-list-item" id="pt-login">
            <a accesskey="o" href="/w/index.php?title=Special:UserLogin&returnto=List+of+science+fiction+films+of+the+2020s" title="You're encouraged to log in; however, it's not mandatory. [o]">
              <span>
                Log in

```

```

        </span>
    </a>
</li>
</ul>
</div>
</nav>
<div id="left-navigation">
    <nav aria-labelledby="p-namespaces-label" class="vector-menu mw-portlet mw-portlet-namespaces vector-menu-tabs vector-menu-tabs-legacy" id="p-namespaces" role="navigation">
        <h3 class="vector-menu-heading" id="p-namespaces-label">
            <span class="vector-menu-heading-label">
                Namespaces
            </span>
        </h3>
        <div class="vector-menu-content">
            <ul class="vector-menu-content-list">
                <li class="selected mw-list-item" id="ca-nstab-main">
                    <a accesskey="c" href="/wiki/List_of_science_fiction_films_of_the_2020s" title="View the content page [c]">
                        <span>
                            Article
                        </span>
                    </a>
                </li>
                <li class="mw-list-item" id="ca-talk">
                    <a accesskey="t" href="/wiki/Talk:List_of_science_fiction_films_of_the_2020s" rel="discussion" title="Discuss improvements to the content page [t]">
                        <span>
                            Talk
                        </span>
                    </a>
                </li>
            </ul>
        </div>
    </nav>
    <nav aria-labelledby="p-variants-label" class="vector-menu mw-portlet mw-portlet-variants emptyPortlet vector-menu-dropdown-noicon vector-menu-dropdown" id="p-variants" role="navigation">
        <input aria-haspopup="true" aria-labelledby="p-variants-label" class="vector-menu-checkbox" data-event-name="ui.dropdown-p-variants" id="p-variants-checkbox" role="button" type="checkbox"/>
        <label aria-label="Change language variant" class="vector-menu-heading" id="p-variants-label">
            <span class="vector-menu-heading-label">
                English
            </span>
        </label>
        <div class="vector-menu-content">
            <ul class="vector-menu-content-list">
            </ul>
        </div>
    </nav>
</div>
<div id="right-navigation">
    <nav aria-labelledby="p-views-label" class="vector-menu mw-portlet mw-portlet-views vector-menu-tabs vector-menu-tabs-legacy" id="p-views" role="navigation">
        <h3 class="vector-menu-heading" id="p-views-label">
            <span class="vector-menu-heading-label">
                Views
            </span>
        </h3>
        <div class="vector-menu-content">
            <ul class="vector-menu-content-list">
                <li class="selected mw-list-item" id="ca-view">
                    <a href="/wiki/List_of_science_fiction_films_of_the_2020s">

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        <span>
            Read
        </span>
    </a>
</li>
<li class="mw-list-item" id="ca-edit">
    <a accesskey="e" href="/w/index.php?title=List_of_science_fiction_films_of_the_
2020s&amp;action=edit" title="Edit this page [e]">
        <span>
            Edit
        </span>
    </a>
</li>
<li class="mw-list-item" id="ca-history">
    <a accesskey="h" href="/w/index.php?title=List_of_science_fiction_films_of_the_
2020s&amp;action=history" title="Past revisions of this page [h]">
        <span>
            View history
        </span>
    </a>
</li>
</ul>
</div>
</nav>
<nav aria-labelledby="p-cactions-label" class="vector-menu mw-portlet mw-portlet-ca
ctions emptyPortlet vector-menu-dropdown-noicon vector-menu-dropdown" id="p-cactions" ro
le="navigation" title="More options">
    <input aria-haspopup="true" aria-labelledby="p-cactions-label" class="vector-menu-
checkbox" data-event-name="ui.dropdown-p-cactions" id="p-cactions-checkbox" role="butto
n" type="checkbox"/>
    <label class="vector-menu-heading" id="p-cactions-label">
        <span class="vector-menu-heading-label">
            More
        </span>
    </label>
    <div class="vector-menu-content">
        <ul class="vector-menu-content-list">
        </ul>
    </div>
</nav>
<div class="vector-search-box-vue vector-search-box-show-thumbnail vector-search-bo
x-auto-expand-width vector-search-box" id="p-search" role="search">
    <div>
        <form action="/w/index.php" class="vector-search-box-form" id="searchform">
            <div class="vector-search-box-inner" data-search-loc="header-navigation" id="sim
pleSearch">
                <input accesskey="f" aria-label="Search Wikipedia" autocapitalize="sentences" c
lass="vector-search-box-input" id="searchInput" name="search" placeholder="Search Wikipe
dia" title="Search Wikipedia [f]" type="search"/>
                <input name="title" type="hidden" value="Special:Search"/>
                <input class="searchButton mw-fallbackSearchButton" id="mw-searchButton" name
="fulltext" title="Search Wikipedia for this text" type="submit" value="Search"/>
                <input class="searchButton" id="searchButton" name="go" title="Go to a page wit
h this exact name if it exists" type="submit" value="Go"/>
            </div>
        </form>
    </div>
</div>
</div>
</div>
<div class="vector-legacy-sidebar" id="mw-panel">
    <div id="p-logo" role="banner">
        <a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main page">
        </a>
    </div>
    <nav aria-labelledby="p-navigation-label" class="vector-menu mw-portlet mw-portlet-n

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avigation vector-menu-portal portal" id="p-navigation" role="navigation">
  <h3 class="vector-menu-heading" id="p-navigation-label">
    <span class="vector-menu-heading-label">
      Navigation
    </span>
  </h3>
  <div class="vector-menu-content">
    <ul class="vector-menu-content-list">
      <li class="mw-list-item" id="n-mainpage-description">
        <a accesskey="z" href="/wiki/Main_Page" title="Visit the main page [z]">
          <span>
            Main page
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-contents">
        <a href="/wiki/Wikipedia:Contents" title="Guides to browsing Wikipedia">
          <span>
            Contents
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-currentevents">
        <a href="/wiki/Portal:Current_events" title="Articles related to current event
s">
          <span>
            Current events
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-randompage">
        <a accesskey="x" href="/wiki/Special:Random" title="Visit a randomly selected ar
ticle [x]">
          <span>
            Random article
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-aboutsite">
        <a href="/wiki/Wikipedia:About" title="Learn about Wikipedia and how it works">
          <span>
            About Wikipedia
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-contactpage">
        <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact Wik
ipedia">
          <span>
            Contact us
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-sitesupport">
        <a href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirector?utm_sour
ce=donate&utm_medium=sidebar&utm_campaign=C13_en.wikipedia.org&uselang=en" t
itle="Support us by donating to the Wikimedia Foundation">
          <span>
            Donate
          </span>
        </a>
      </li>
    </ul>
  </div>
</nav>
<nav aria-labelledby="p-interaction-label" class="vector-menu mw-portlet mw-portlet-

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interaction vector-menu-portal portal" id="p-interaction" role="navigation">
  <h3 class="vector-menu-heading" id="p-interaction-label">
    <span class="vector-menu-heading-label">
      Contribute
    </span>
  </h3>
  <div class="vector-menu-content">
    <ul class="vector-menu-content-list">
      <li class="mw-list-item" id="n-help">
        <a href="/wiki/Help:Contents" title="Guidance on how to use and edit Wikipedia">
          <span>
            Help
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-introduction">
        <a href="/wiki/Help:Introduction" title="Learn how to edit Wikipedia">
          <span>
            Learn to edit
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-portal">
        <a href="/wiki/Wikipedia:Community_portal" title="The hub for editors">
          <span>
            Community portal
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-recentchanges">
        <a accesskey="r" href="/wiki/Special:RecentChanges" title="A list of recent changes to Wikipedia [r]">
          <span>
            Recent changes
          </span>
        </a>
      </li>
      <li class="mw-list-item" id="n-upload">
        <a href="/wiki/Wikipedia:File_upload_wizard" title="Add images or other media for use on Wikipedia">
          <span>
            Upload file
          </span>
        </a>
      </li>
    </ul>
  </div>
</nav>
<nav aria-labelledby="p-tb-label" class="vector-menu mw-portlet mw-portlet-tb vector-menu-portal portal" id="p-tb" role="navigation">
  <h3 class="vector-menu-heading" id="p-tb-label">
    <span class="vector-menu-heading-label">
      Tools
    </span>
  </h3>
  <div class="vector-menu-content">
    <ul class="vector-menu-content-list">
      <li class="mw-list-item" id="t-whatlinkshere">
        <a accesskey="j" href="/wiki/Special:WhatLinksHere/List_of_science_fiction_films_of_the_2020s" title="List of all English Wikipedia pages containing links to this page [j]">
          <span>
            What links here
          </span>
        </a>
      </li>
    </ul>
  </div>
</div>
```

```

<li class="mw-list-item" id="t-recentchangeslinked">
  <a accesskey="k" href="/wiki/Special:RecentChangesLinked/List_of_science_fiction_films_of_the_2020s" rel="nofollow" title="Recent changes in pages linked from this page [k]">
    <span>
      Related changes
    </span>
  </a>
</li>
<li class="mw-list-item" id="t-upload">
  <a accesskey="u" href="/wiki/Wikipedia:File_Upload_Wizard" title="Upload files [u]">
    <span>
      Upload file
    </span>
  </a>
</li>
<li class="mw-list-item" id="t-specialpages">
  <a accesskey="q" href="/wiki/Special:SpecialPages" title="A list of all special pages [q]">
    <span>
      Special pages
    </span>
  </a>
</li>
<li class="mw-list-item" id="t-permalink">
  <a href="/w/index.php?title=List_of_science_fiction_films_of_the_2020s&oldid=1129236294" title="Permanent link to this revision of this page">
    <span>
      Permanent link
    </span>
  </a>
</li>
<li class="mw-list-item" id="t-info">
  <a href="/w/index.php?title=List_of_science_fiction_films_of_the_2020s&action=info" title="More information about this page">
    <span>
      Page information
    </span>
  </a>
</li>
<li class="mw-list-item" id="t-cite">
  <a href="/w/index.php?title=Special:CiteThisPage&page=List_of_science_fiction_films_of_the_2020s&id=1129236294&wpFormIdentifier=titleform" title="Information on how to cite this page">
    <span>
      Cite this page
    </span>
  </a>
</li>
<li class="mw-list-item" id="t-wikibase">
  <a accesskey="g" href="https://www.wikidata.org/wiki/Special:EntityPage/Q61581573" title="Structured data on this page hosted by Wikidata [g]">
    <span>
      Wikidata item
    </span>
  </a>
</li>
</ul>
</div>
</nav>
<nav aria-labelledby="p-coll-print_export-label" class="vector-menu mw-portlet mw-portlet-coll-print_export vector-menu-portal portal" id="p-coll-print_export" role="navigation">
  <h3 class="vector-menu-heading" id="p-coll-print_export-label">
    <span class="vector-menu-heading-label">

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Print/export
</span>
</h3>
<div class="vector-menu-content">
  <ul class="vector-menu-content-list">
    <li class="mw-list-item" id="coll-download-as-rl">
      <a href="/w/index.php?title=Special:DownloadAsPdf&page=List_of_science_fiction_films_of_the_2020s&action=show-download-screen" title="Download this page as a PDF file">
        <span>
          Download as PDF
        </span>
      </a>
    </li>
    <li class="mw-list-item" id="t-print">
      <a accesskey="p" href="/w/index.php?title=List_of_science_fiction_films_of_the_2020s&printable=yes" title="Printable version of this page [p]">
        <span>
          Printable version
        </span>
      </a>
    </li>
  </ul>
</div>
</nav>
<nav aria-labelledby="p-lang-label" class="vector-menu mw-portlet mw-portlet-lang vector-menu-portal portal" id="p-lang" role="navigation">
  <h3 class="vector-menu-heading" id="p-lang-label">
    <span class="vector-menu-heading-label">
      Languages
    </span>
  </h3>
  <div class="vector-menu-content">
    <ul class="vector-menu-content-list">
      <li class="interlanguage-link interwiki-de mw-list-item">
        <a class="interlanguage-link-target" href="https://de.wikipedia.org/wiki/Science-Fiction-Filme_der_2020er_Jahre" hreflang="de" lang="de" title="Science-Fiction-Filme der 2020er Jahre - German">
          <span>
            Deutsch
          </span>
        </a>
      </li>
      <li class="interlanguage-link interwiki-ja mw-list-item">
        <a class="interlanguage-link-target" href="https://ja.wikipedia.org/wiki/2020%E5%B9%B4%E4%BB%A3%E3%81%AE%E6%98%A0%E7%94%BB%E3%81%AE%E4%B8%80%E8%A6%A7" hreflang="ja" lang="ja" title="2020年代のSF映画の一覧 - Japanese">
          <span>
            日本語
          </span>
        </a>
      </li>
      <li class="interlanguage-link interwiki-ro mw-list-item">
        <a class="interlanguage-link-target" href="https://ro.wikipedia.org/wiki/List%C4%83_de_filme_%C8%99tiin%C8%9Bifico-fantastice_din_anii_2020" hreflang="ro" lang="ro" title="Listă de filme științifico-fantastice din anii 2020 - Romanian">
          <span>
            Română
          </span>
        </a>
      </li>
    </ul>
  <div class="after-portlet after-portlet-lang">
    <span class="wb-langlinks-edit wb-langlinks-link">
      <a class="wbc-editpage" href="https://www.wikidata.org/wiki/Special:EntityPage/Q61581573#sitelinks-wikipedia" title="Edit interlanguage links">

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        Edit links
    </a>
</span>
</div>
</div>
</nav>
</div>
</div>
<footer class="mw-footer" id="footer" role="contentinfo">
    <ul id="footer-info">
        <li id="footer-info-lastmod">
            This page was last edited on 24 December 2022, at 07:23
            <span class="anonymous-show">
                (UTC)
            </span>
            .
        </li>
        <li id="footer-info-copyright">
            Text is available under the
            <a href="//en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-ShareAlike_3.0_Unported_License" rel="license">
                Creative Commons Attribution-ShareAlike License 3.0
            </a>
            <a href="//creativecommons.org/licenses/by-sa/3.0/" rel="license" style="display:none;">
                ;
            additional terms may apply. By using this site, you agree to the
            <a href="//foundation.wikimedia.org/wiki/Terms_of_Use">
                Terms of Use
            </a>
            and
            <a href="//foundation.wikimedia.org/wiki/Privacy_policy">
                Privacy Policy
            </a>
            . Wikipedia® is a registered trademark of the
            <a href="//www.wikimediafoundation.org/">
                Wikimedia Foundation, Inc.
            </a>
            , a non-profit organization.
        </li>
    </ul>
    <ul id="footer-places">
        <li id="footer-places-privacy">
            <a href="https://foundation.wikimedia.org/wiki/Privacy_policy">
                Privacy policy
            </a>
        </li>
        <li id="footer-places-about">
            <a href="/wiki/Wikipedia:About">
                About Wikipedia
            </a>
        </li>
        <li id="footer-places-disclaimers">
            <a href="/wiki/Wikipedia:General_disclaimer">
                Disclaimers
            </a>
        </li>
        <li id="footer-places-contact">
            <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us">
                Contact Wikipedia
            </a>
        </li>
        <li id="footer-places-mobileview">
            <a class="noprint stopMobileRedirectToggle" href="//en.m.wikipedia.org/w/index.php?title=List_of_science_fiction_films_of_the_2020s&mobileaction=toggle_view_mobile">

```

```

    Mobile view
  </a>
</li>
<li id="footer-places-developers">
  <a href="https://developer.wikimedia.org">
    Developers
  </a>
</li>
<li id="footer-places-statslink">
  <a href="https://stats.wikimedia.org/#/en.wikipedia.org">
    Statistics
  </a>
</li>
<li id="footer-places-cookistatement">
  <a href="https://foundation.wikimedia.org/wiki/Cookie_statement">
    Cookie statement
  </a>
</li>
</ul>
<ul class="noprint" id="footer-icons">
  <li id="footer-copyrightico">
    <a href="https://wikimediafoundation.org/">
      
    </a>
  </li>
  <li id="footer-poweredbyico">
    <a href="https://www.mediawiki.org/">
      
    </a>
  </li>
</ul>
</footer>
<script>
  (RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgPageParseReport":{"limitreport":{"cputime":"0.367","walltime":"0.509","ppvisitednodes":{"value":1664,"limit":100000},"postexpandincludesize":{"value":41614,"limit":2097152},"templateargumentsize":{"value":884,"limit":2097152},"expansiondepth":{"value":18,"limit":100},"expensivefunctioncount":{"value":2,"limit":500},"unstrip-depth":{"value":1,"limit":20},"unstrip-size":{"value":45787,"limit":500000},"entityaccesscount":{"value":0,"limit":400},"timingprofile":["100.00% 361.210 1 -total"," 28.68% 103.590 2 Template:Reflist"," 21.26% 76.795 1 Template:Scififilmlist"," 20.82% 75.220 1 Template:Sidebar"," 20.79% 75.093 4 Template:Cite_news"," 14.86% 53.658 1 Template:Short_description"," 12.26% 44.292 1 Template:Inc-film"," 11.14% 40.233 1 Template:Incomplete_list"," 7.98% 28.830 2 Template:Pagetype"," 7.87% 28.418 1 Template:Filmsbygenre"]},"scribunto":{"limitreport-timeusage":{"value":"0.187","limit":"10.000"},"limitreport-memusage":{"value":4939485,"limit":52428800},"cachereport":{"origin":"mw2316","timestamp":"20221229212734","ttl":1814400,"transientcontent":false}}}}));
</script>
<script type="application/ld+json">
  {
    "@context": "https://schema.org",
    "@type": "Article",
    "name": "List of science fiction films of the 2020s",
    "url": "https://en.wikipedia.org/wiki/List_of_science_fiction_films_of_the_2020s",
    "sameAs": "http://www.wikidata.org/entity/Q61581573",
    "mainEntity": "http://www.wikidata.org/entity/Q61581573",
    "author": {
      "@type": "Organization",
      "name": "Contributors to Wikimedia projects"
    },
    "publisher": {
      "@type": "Organization",
      "name": "Wikimedia Foundation, Inc.",
      "logo": {
        "@type": "ImageObject",
        "url": "https://www.wikimedia.org/static/images/wmf-hor-googpub.png"
      },
      "datePublished": "2019-02-06T15:51:55Z",
      "dateModified": "2022-12-24T07:23:28Z",
      "image": "https://upload.wikimedia.org/wikipedia/commons/6/65/Sci-fi_film_icon.svg",
      "headline": "Wikimedia list article"
    }
  }
</script>
<script type="application/ld+json">
  {
    "@context": "https://schema.org",
    "@type": "Article",
    "name": "List of science fiction films of the 2020s",
    "url": "https://en.wikipedia.org/wiki/List_of_science_fiction_films_of_the_2020s",
    "sameAs": "http://www.wikidata.org/entity/Q61581573",
    "mainEntity": "http://www.wikidata.org/entity/Q61581573",
    "author": {
      "@type": "Organization",
      "name": "Contributors to Wikimedia projects"
    },
    "publisher": {
      "@type": "Organization",
      "name": "Wikimedia Foundation, Inc.",
      "logo": {
        "@type": "ImageObject",
        "url": "https://www.wikimedia.org/static/images/wmf-hor-googpub.png"
      },
      "datePublished": "2019-02-06T15:51:55Z",
      "dateModified": "2022-12-24T07:23:28Z",
      "image": "https://upload.wikimedia.org/wikipedia/commons/6/65/Sci-fi_film_icon.svg",
      "headline": "Wikimedia list article"
    }
  }
</script>

```

```

lms_of_the_2020s", "sameAs": "http://www.wikidata.org/entity/Q61581573", "mainEntity": "http://www.wikidata.org/entity/Q61581573", "author": {"@type": "Organization", "name": "Contributors to Wikimedia projects"}, "publisher": {"@type": "Organization", "name": "Wikimedia Foundation, Inc.", "logo": {"@type": "ImageObject", "url": "https://www.wikimedia.org/static/images/wmf-hor-googpub.png"}}, "datePublished": "2019-02-06T15:51:55Z", "dateModified": "2022-12-24T07:23:28Z", "image": "https://upload.wikimedia.org/wikipedia/commons/6/65/Sci-fi_film_icon.svg", "headline": "Wikimedia list article"}
</script>
<script>
    (RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgBackendResponseTime":95,"wgHostname":"mw2409"});});
</script>
</body>
</html>

```

## 2.2.1 Modularize create\_infobox function which returns any info box detail of movies given link

### 2.2.2 clean junk text and clean superscript tags (e.g <sup>[1]</sup>)

```

In [5]: # retrieve content of rows which only has an list, replace junk text
def retrieve_row_content(rowContent):
    if rowContent.find("li"):
        return [li.get_text(" ", strip=True).replace("\xa0", " ") for li in rowContent.find_all("li")]
    else:
        return rowContent.get_text(" ", strip=True)

#remove superscript tags
def remove_tag(soup):
    for tagging in soup.find_all(["sup"]):
        tagging.decompose()
    return soup

#create infobox for each movie function
def create_infobox(url):

    URL = requests.get(url)

    # Convert to a beautiful soup object
    soup = bs(URL.content)
    infobox = soup.find(class_="infobox vevent")
    infoTableRow = infobox.find_all("tr")

    remove_tag(soup)

    # declare an empty key value pair dictionary
    movie_detail = {}

    #first row is title
    for rowNumber, row in enumerate(infoTableRow):
        if rowNumber == 0:
            #get movie title
            #strip whitespace on front and end of text
            movie_detail['title'] = row.find("th").get_text(" ", strip=True)

        # get secondary titles e.g (box office)
        else:
            header = row.find('th')
            if header:
                key = row.find("th").get_text(" ", strip=True)
                value = retrieve_row_content(row.find("td"))
                movie_detail[key] = value

```

```
return movie_detail
```

## 2.2.3 create\_infobox function with a movie link

cleaner infobox created here

```
In [6]: create_infobox("https://en.wikipedia.org/wiki/Archive_(film)")
```

```
Out[6]: {'title': 'Archive',
'Directed by': 'Gavin Rothery',
'Written by': 'Gavin Rothery',
'Produced by': ['Cora Palfrey', 'Philip Herd', 'Theo James'],
'Starring': ['Theo James',
'Stacy Martin',
'Rhona Mitra',
'Peter Ferdinando',
'Richard Glover',
'Lia Williams',
'Toby Jones'],
'Cinematography': 'Laurie Rose',
'Edited by': 'Adam Biskupski',
'Music by': 'Steven Price',
'Production companies': ['Independent Films',
'Head Gear Films',
'Untapped Films'],
'Distributed by': 'Vertical Entertainment',
'Release dates': ['10 July 2020 ( 2020-07-10 ) (United States)',
'18 January 2021 ( 2021-01-18 ) (United Kingdom)'],
'Running time': '105 minutes',
'Country': 'United Kingdom',
'Language': 'English',
'Box office': '$242,195'}
```

## 2.2.4 Get URL path links of each movies and checks how many movie is scraped

root path + relative path(movie name) and append it into a movie\_detail list.

```
In [7]: URL = requests.get("https://en.wikipedia.org/wiki/List_of_science_fiction_films_of_the_2
soup = bs(URL.content)
movies = soup.select(".wikitable i a")

root_path = "https://en.wikipedia.org/"

movie_detail_list = []
for items, movie in enumerate(movies):

# stop at forthcoming movies at 2023 so we limit items to 60...
if items<60:
    try:
        relative_path = movie['href']
        complete_path = root_path + relative_path
        title = movie['title']

        movie_detail_list.append(create_infobox(complete_path))

    except:
        print("Error obtaining detail of movie :")
        print(complete_path)
```

```
print("Movies collected : " , len(movie_detail_list))
```

Error obtaining detail of movie :

[https://en.wikipedia.org//w/index.php?title=Doors \(film\)&action=edit&redlink=1](https://en.wikipedia.org//w/index.php?title=Doors (film)&action=edit&redlink=1)

Movies collected : 59

**only movie 'Doors' cannot be retrieved because there no wikipedia author providing information on it**

## 2.2.5 Save the scraped data as json file

In [8]: `import json`

```
def save_file(filename, inputData):  
    with open(filename, 'w', encoding='utf-8') as file:  
        json.dump(inputData, file, ensure_ascii=False)  
  
save_file("sciencefiction_cleaned.json", movie_detail_list)
```

## 2.2.6 check return of json file

In [9]: `def load_file(filename):`

```
    with open(filename, encoding="utf-8") as file:  
        return json.load(file)
```

```
movie_detail_list = load_file("sciencefiction_cleaned.json")  
movie_detail_list
```

Out[9]:

```
{  
  'title': '2067',  
  'Directed by': 'Seth Larney',  
  'Written by': ['Seth Larney', 'Additional writing: Dave Paterson'],  
  'Additional dialogue by': ['Gareth Davies'],  
  'Based on': 'a treatment by Gavin Scott Davis',  
  'Produced by': ['Lisa Shaunessy', 'Jason Taylor', 'Kate Croser'],  
  'Starring': ['Kodi Smit-McPhee',  
    'Ryan Kwanten',  
    'Leeanna Walsman',  
    'Aaron Glenane',  
    'Deborah Mailman'],  
  'Cinematography': 'Earle Dresner',  
  'Edited by': 'Sean Lahiff',  
  'Music by': ['Kenneth Lampl', 'Kirsten Axelholm'],  
  'Production companies': ['Screen Australia',  
    'XYZ Films',  
    'Futurism Studios',  
    'South Australian Film Corporation',  
    'Adelaide Film Festival',  
    'Create NSW',  
    'Elevate Production Finance',  
    'Grumpy Sailor',  
    'Kojo Entertainment',  
    'Freedom Films',  
    'Arcadia'],  
  'Distributed by': ['Umbrella Entertainment (Australia)', 'RLJE Films (US)'],  
  'Release date': ['October 2, 2020 ( 2020-10-02 ) (United States)'],  
  'Running time': '114 minutes',  
  'Country': ['Australia'],  
  'Language': 'English'},  
{  
  'title': 'Archive',  
  'Directed by': 'Gavin Rothery',  
  'Written by': 'Gavin Rothery',
```

'Produced by': ['Cora Palfrey', 'Philip Herd', 'Theo James'],  
 'Starring': ['Theo James',  
 'Stacy Martin',  
 'Rhona Mitra',  
 'Peter Ferdinando',  
 'Richard Glover',  
 'Lia Williams',  
 'Toby Jones'],  
 'Cinematography': 'Laurie Rose',  
 'Edited by': 'Adam Biskupski',  
 'Music by': 'Steven Price',  
 'Production companies': ['Independent Films',  
 'Head Gear Films',  
 'Untapped Films'],  
 'Distributed by': 'Vertical Entertainment',  
 'Release dates': ['10 July 2020 ( 2020-07-10 ) (United States)',  
 '18 January 2021 ( 2021-01-18 ) (United Kingdom)'],  
 'Running time': '105 minutes',  
 'Country': 'United Kingdom',  
 'Language': 'English',  
 'Box office': '\$242,195'},  
 {'title': 'Artemis Fowl',  
 'Directed by': 'Kenneth Branagh',  
 'Screenplay by': ['Conor McPherson', 'Hamish McColl'],  
 'Based on': 'Artemis Fowl by Eoin Colfer',  
 'Produced by': ['Kenneth Branagh', 'Judy Hofflund'],  
 'Starring': ['Ferdia Shaw',  
 'Lara McDonnell',  
 'Josh Gad',  
 'Tamara Smart',  
 'Nonso Anozie',  
 'Colin Farrell',  
 'Judi Dench'],  
 'Cinematography': 'Haris Zambarloukos',  
 'Edited by': 'Matthew Tucker',  
 'Music by': 'Patrick Doyle',  
 'Production companies': ['Walt Disney Pictures', 'TKBC', 'Marzano Films'],  
 'Distributed by': 'Disney+',  
 'Release date': ['June 12, 2020 ( 2020-06-12 )'],  
 'Running time': '95 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$125 million'},  
 {'title': 'Bill & Ted Face the Music',  
 'Directed by': 'Dean Parisot',  
 'Screenplay by': ['Chris Matheson', 'Ed Solomon'],  
 'Based on': ['Chris Matheson', 'Ed Solomon'],  
 'Produced by': ['Scott Kroopf',  
 'Alex Lebovici',  
 'David Haring',  
 'Steve Ponce',  
 'Ed Solomon',  
 'Alex Winter'],  
 'Starring': ['Keanu Reeves',  
 'Alex Winter',  
 'Kristen Schaal',  
 'Samara Weaving',  
 'Brigitte Lundy-Paine',  
 'Anthony Carrigan',  
 'Erinn Hayes',  
 'Jayma Mays',  
 'Holland Taylor',  
 'Kid Cudi',  
 'William Sadler',  
 'Jillian Bell'],  
 'Cinematography': 'Shelly Johnson',

'Edited by': 'Don Zimmerman',  
 'Music by': 'Mark Isham',  
 'Production companies': ['Orion Pictures',  
 'Endeavor Content',  
 'Hammerstone Studios'],  
 'Distributed by': 'United Artists Releasing',  
 'Release date': ['August 28, 2020 ( 2020-08-28 )'],  
 'Running time': '91 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$25 million',  
 'Box office': '\$6.3 million'},  
 {'title': 'Bloodshot',  
 'Directed by': 'David S. F. Wilson',  
 'Screenplay by': ['Jeff Wadlow', 'Eric Heisserer'],  
 'Story by': 'Jeff Wadlow',  
 'Based on': ['Kevin VanHook', 'Don Perlin', 'Bob Layton'],  
 'Produced by': ['Neal H. Moritz',  
 'Toby Jaffe',  
 'Dinesh Shamdasani',  
 'Vin Diesel'],  
 'Starring': ['Vin Diesel',  
 'Eiza González',  
 'Sam Heughan',  
 'Toby Kebbell',  
 'Guy Pearce'],  
 'Cinematography': 'Jacques Jouffret',  
 'Edited by': 'Jim May',  
 'Music by': 'Steve Jablonsky',  
 'Production companies': ['Columbia Pictures',  
 'Bona Film Group',  
 'Cross Creek Pictures',  
 'Original Film',  
 'One Race Films',  
 'Valiant Entertainment',  
 'Annabell Pictures',  
 'The Hideaway Entertainment'],  
 'Distributed by': 'Sony Pictures Releasing',  
 'Release dates': ['March 10, 2020 ( 2020-03-10 ) ( Westwood )',  
 'March 13, 2020 ( 2020-03-13 ) (United States)'],  
 'Running time': '109 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$45 million',  
 'Box office': '\$37.3 million'},  
 {'title': 'Breach',  
 'Directed by': 'John Suits',  
 'Written by': ['Edward Drake', 'Corey Large'],  
 'Produced by': ['Corey Large',  
 'Danny Roth',  
 'Mike Donovan',  
 'Ryan Charles Griffin'],  
 'Starring': ['Cody Kearsley', 'Bruce Willis', 'Thomas Jane'],  
 'Cinematography': 'Will Stone',  
 'Music by': 'Scott Glasgow',  
 'Production companies': ['308 Entertainment',  
 'Almost Never Films Inc.',  
 'Aloe Entertainment',  
 'Screen Media Films'],  
 'Distributed by': 'Saban Films',  
 'Release date': ['December 18, 2020 ( 2020-12-18 )'],  
 'Running time': '93 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Box office': '\$39,328'},  
 {'title': 'Color Out of Space',

'Directed by': 'Richard Stanley',  
 'Written by': ['Richard Stanley', 'Scarlett Amaris'],  
 'Based on': '" The Colour Out of Space " by H. P. Lovecraft',  
 'Produced by': ['Daniel Noah',  
 'Josh C. Waller',  
 'Elijah Wood',  
 'Lisa Whalen'],  
 'Starring': ['Nicolas Cage',  
 'Joely Richardson',  
 'Elliot Knight',  
 'Madeleine Arthur',  
 "Q'orianka Kilcher",  
 'Tommy Chong'],  
 'Cinematography': 'Steve Annis',  
 'Edited by': 'Brett W. Bachman',  
 'Music by': 'Colin Stetson',  
 'Production company': 'SpectreVision',  
 'Distributed by': 'RLJE Films',  
 'Release dates': ['September 7, 2019 ( 2019-09-07 ) ( TIFF )',  
 'January 24, 2020 ( 2020-01-24 ) (United States)'],  
 'Running time': '111 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$6-12 million',  
 'Box office': '\$1 million'},  
 {'title': 'Cosmoball',  
 'Directed by': 'Dzhanik Fayziev',  
 'Screenplay by': ['Andrey Rubanov ( ru )',  
 'Dzhanik Fayziev',  
 'Drew Row',  
 'Twister Murchison'],  
 'Based on': 'Galactik Football by Frederic Dybowski Antoine Charreyron',  
 'Produced by': ['Sergey Selyanov ( ru )',  
 'Dzhanik Fayziev',  
 'Innokentiy Malinkin'],  
 'Starring': ['Yevgeny Romantsov',  
 'Viktoriya Agalakova',  
 'Maria Lisovaya',  
 'Ivan Ivanovich',  
 'Liza Taychenacheva',  
 'Yevgeny Mironov',  
 'Elena Yakovleva',  
 'Mikhail Yefremov',  
 'Dmitry Nazarov',  
 'Svetlana Ivanova'],  
 'Cinematography': 'Maksim Osadchy',  
 'Edited by': 'Rod Nikolaychuk',  
 'Music by': 'Tony Neiman',  
 'Production companies': ['Bonanza Studio',  
 'CTB Film Company',  
 'KIT Film Studio',  
 'Main Road Post',  
 'Russia-1',  
 'Channel One',  
 'STS',  
 'Cinema Fund',  
 'AvtoRadio'],  
 'Distributed by': 'Nashe Kino (Our Cinema)',  
 'Release date': ['August 27, 2020 ( 2020-08-27 ) ( Russia )'],  
 'Running time': '118 minutes',  
 'Country': 'Russia',  
 'Languages': ['Russian', 'English'],  
 'Budget': ['₽ 786 million', '\$15-22 million'],  
 'Box office': ['₽106.6 million',  
 '\$1.4 million (Worldwide)',  
 '\$1.4 million (Russia/ CIS )']}]},



```

{ 'title': 'Freaks: You're One of Us',
  'German': 'Freaks - Du bist eine von uns',
  'Directed by': 'Felix Binder',
  'Written by': 'Marc O. Seng',
  'Starring': ['Finnlay Berger', 'Thelma Buabeng', 'Gisa Flake'],
  'Distributed by': 'Netflix',
  'Release date': ['2 September 2020 ( 2020-09-02 )'],
  'Running time': '92 minutes',
  'Country': 'Germany',
  'Language': 'German'},
{ 'title': 'Friend of the World',
  'Directed by': 'Brian Patrick Butler',
  'Screenplay by': 'Brian Patrick Butler',
  'Produced by': ['Kerry Rossall',
    'Brian Patrick Butler',
    'Luke Anthony Pensabene'],
  'Starring': ['Nick Young', 'Alexandra Slade'],
  'Cinematography': 'Ray Gallardo',
  'Edited by': 'Brian Patrick Butler',
  'Music by': 'Stefan Krut',
  'Production companies': ['Charybdis Pictures', 'Gray Area Multimedia'],
  'Distributed by': 'Troma Entertainment',
  'Release dates': ['August 15, 2020 ( 2020-08-15 ) ( Oceanside International Film Festival )',
    'November 22, 2021 ( 2021-11-22 ) ( VOD )'],
  'Running time': '50 minutes',
  'Country': 'United States',
  'Language': 'English'},
{ 'title': 'Intersect',
  'Directed by': 'Gus Holwerda',
  'Screenplay by': 'Gus Holwerda',
  'Produced by': 'Gus Holwerda, Luke Holwerda, Jason Spisak',
  'Cinematography': 'Luke Holwerda',
  'Music by': 'Peter McConnell',
  'Production companies': 'Black Chalk, Shirley Films',
  'Distributed by': '1091 Pictures , Tubi TV',
  'Release date': ['12 February 2020 ( 2020-02-12 ) (Boston SciFi Film Festival)'],
  'Running time': '119 minutes',
  'Country': 'United States',
  'Language': 'English',
  'Budget': '$1,500,000'},
{ 'title': 'Invasion',
  'Directed by': 'Fyodor Bondarchuk',
  'Screenplay by': ['Oleg Malovichko', 'Andrey Zolotarev'],
  'Produced by': ['Fyodor Bondarchuk',
    'Dmitriy Rudovskiy',
    'Mikhail Vrubel',
    'Aleksandr Andryushchenko',
    'Anton Zlatopolskiy ( ru )',
    'Elena Nelidova',
    'Mikhail Kitaev'],
  'Starring': ['Irina Starshenbaum',
    'Rinal Mukhametov',
    'Alexander Petrov',
    'Yuri Borisov',
    'Oleg Menshikov',
    'Sergei Garmash'],
  'Cinematography': 'Vladislav Oplyants',
  'Edited by': ['Aleksandr Andryushchenko', 'Aleksandr Puzyryov'],
  'Music by': 'Igor Vdovin',
  'Production companies': ['Columbia Pictures',
    'Art Pictures Studio',
    'Vodorod',
    'Cinema Foundation',
    'Russia-1',
    'National Media Group Studio'],

```

'Distributed by': 'WDSSPR',  
 'Release date': ['January 1, 2020 ( 2020-01-01 )'],  
 'Running time': '129 minutes',  
 'Country': 'Russia',  
 'Languages': 'Russian, English',  
 'Budget': '\$14.8 million ( ₪ 944 million)',  
 'Box office': '\$15.8 million ( ₪ 960 million)}',  
 {'title': 'The Invisible Man',  
 'Directed by': 'Leigh Whannell',  
 'Written by': 'Leigh Whannell',  
 'Based on': 'The Invisible Man suggested by 1897 novel by H. G. Wells',  
 'Produced by': ['Jason Blum', 'Kylie du Fresne'],  
 'Starring': ['Elisabeth Moss',  
 'Aldis Hodge',  
 'Storm Reid',  
 'Harriet Dyer',  
 'Michael Dorman',  
 'Oliver Jackson-Cohen'],  
 'Cinematography': 'Stefan Duscio',  
 'Edited by': 'Andy Canny',  
 'Music by': 'Benjamin Wallfisch',  
 'Production companies': ['Blumhouse Productions',  
 'Goalpost Pictures',  
 'Nervous Tick Productions'],  
 'Distributed by': 'Universal Pictures',  
 'Release dates': ['February 27, 2020 ( 2020-02-27 ) (Australia)',  
 'February 28, 2020 ( 2020-02-28 ) (United States)'],  
 'Running time': '124 minutes',  
 'Countries': 'Australia United States',  
 'Language': 'English',  
 'Budget': '\$7 million',  
 'Box office': '\$144.5 million}',  
 {'title': 'Jiu Jitsu',  
 'Directed by': 'Dimitri Logothetis',  
 'Screenplay by': ['Dimitri Logothetis', 'James McGrath'],  
 'Based on': ['Dimitri Logothetis', 'Jim McGrath'],  
 'Produced by': ['Dimitri Logothetis', 'Martin Barab', 'Chris Economides'],  
 'Starring': ['Alain Moussi',  
 'Frank Grillo',  
 'JuJu Chan',  
 'Tony Jaa',  
 'Nicolas Cage'],  
 'Cinematography': 'Gerardo Madrazo',  
 'Edited by': 'Danny McDonald',  
 'Music by': 'Mocean Worker',  
 'Production companies': ['Highland Film Group',  
 'Coprod Media International Limited',  
 'Double Tree Entertainment',  
 'Acme Rocket Fuel'],  
 'Distributed by': 'The Avenue Entertainment',  
 'Release date': ['November 20, 2020 ( 2020-11-20 )'],  
 'Running time': '102 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$25 million',  
 'Box office': '\$99,924}',  
 {'title': 'The Midnight Sky',  
 'Directed by': 'George Clooney',  
 'Screenplay by': 'Mark L. Smith',  
 'Based on': 'Good Morning, Midnight by Lily Brooks-Dalton',  
 'Produced by': ['Grant Heslov',  
 'George Clooney',  
 'Keith Redmon',  
 'Bard Dorros',  
 'Cliff Roberts'],  
 'Starring': ['George Clooney',

'Felicity Jones',  
 'David Oyelowo',  
 'Tiffany Boone',  
 'Demián Bichir',  
 'Kyle Chandler',  
 'Caoilinn Springall'],  
 'Cinematography': 'Martin Ruhe',  
 'Edited by': 'Stephen Mirrione',  
 'Music by': 'Alexandre Desplat',  
 'Production companies': ['Smokehouse Pictures', 'Anonymous Content'],  
 'Distributed by': 'Netflix',  
 'Release date': ['December 11, 2020 ( 2020-12-11 )'],  
 'Running time': '118 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$100 million',  
 'Box office': '\$3 million'},  
 {'title': 'Minor Premise',  
 'Directed by': 'Eric Schultz',  
 'Written by': ['Justin Moretto', 'Eric Schultz', 'Thomas Torrey'],  
 'Produced by': ['Justin Moretto',  
 "Ross O'Connor",  
 'Eric Schultz',  
 'Nicolai Schwarzkopf',  
 'Thomas Torrey'],  
 'Starring': ['Sathya Sridharan', 'Paton Ashbrook', 'Dana Ashbrook'],  
 'Cinematography': 'Justin Derry',  
 'Edited by': ['James Codoyannis', 'Christopher Radcliffe'],  
 'Music by': 'Gavin Brivik',  
 'Production company': 'Bad Theology',  
 'Distributed by': 'Utopia',  
 'Release date': ['August 29, 2020 ( 2020-08-29 ) ( Fantasia Festival )'],  
 'Running time': '94 minutes',  
 'Country': 'United States',  
 'Language': 'English'},  
 {'title': 'The New Mutants',  
 'Directed by': 'Josh Boone',  
 'Written by': ['Josh Boone', 'Knote Lee'],  
 'Based on': ['Chris Claremont', 'Bob McLeod'],  
 'Produced by': ['Karen Rosenfelt', 'Lauren Shuler Donner', 'Simon Kinberg'],  
 'Starring': ['Blu Hunt',  
 'Maisie Williams',  
 'Anya Taylor-Joy',  
 'Charlie Heaton',  
 'Alice Braga'],  
 'Cinematography': 'Peter Deming',  
 'Edited by': ['Robb Sullivan', 'Matthew Rundell', 'Andrew Buckland'],  
 'Music by': 'Mark Snow',  
 'Production companies': ['20th Century Studios',  
 'Marvel Entertainment',  
 'Kinberg Genre',  
 'Sunswept Entertainment',  
 'TSG Entertainment'],  
 'Distributed by': '20th Century Studios',  
 'Release date': ['August 28, 2020 ( 2020-08-28 ) (United States)'],  
 'Running time': '94 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$67-80 million',  
 'Box office': '\$49.2 million'},  
 {'title': 'PG: Psycho Goreman',  
 'Directed by': 'Steven Kostanski',  
 'Written by': 'Steven Kostanski',  
 'Produced by': ['Stuart F. Andrews', 'Shannon Hanmer', 'Steven Kostanski'],  
 'Starring': ['Nita-Josee Hanna',  
 'Owen Myre',

'Adam Brooks',  
 'Alexis Hancey',  
 'Matthew Ninaber',  
 'Kristen MacCulloch',  
 'Steven Vlahos',  
 'Reece Presley']],  
 'Cinematography': 'Andrew Appelle',  
 'Edited by': ['Andrew Appelle', 'Steven Kostanski'],  
 'Music by': 'Blitz//Berlin',  
 'Production company': 'Raven Banner Entertainment',  
 'Distributed by': 'RLJE Films',  
 'Release date': ['October 7, 2020 ( 2020-10-07 ) (Beyond Fest)'],  
 'Running time': '99 minutes',  
 'Country': 'Canada',  
 'Language': 'English',  
 'Box office': '\$95,384'},  
 {'title': 'Possessor',  
 'Directed by': 'Brandon Cronenberg',  
 'Written by': 'Brandon Cronenberg',  
 'Produced by': ['Fraser Ash',  
 'Niv Fichman',  
 'Kevin Krikst',  
 'Andrew Starke'],  
 'Starring': ['Andrea Riseborough',  
 'Christopher Abbott',  
 'Rossif Sutherland',  
 'Tuppence Middleton',  
 'Sean Bean',  
 'Jennifer Jason Leigh'],  
 'Cinematography': 'Karim Hussain',  
 'Edited by': 'Matthew Hannam',  
 'Music by': 'Jim Williams',  
 'Production companies': ['Ingenious Media',  
 'Telefilm Canada',  
 'Arclight Films',  
 'Ontario Creates',  
 'Particular Crowd',  
 'Crave',  
 'Rhombus Media',  
 'Rook Films'],  
 'Distributed by': ['Elevation Pictures (Canada)',  
 'Signature Entertainment (United Kingdom)'],  
 'Release dates': ['January 25, 2020 ( 2020-01-25 ) ( Sundance )',  
 'October 2, 2020 ( 2020-10-02 ) (United States and Canada)',  
 'November 27, 2020 ( 2020-11-27 ) (United Kingdom)'],  
 'Running time': '104 minutes',  
 'Countries': ['Canada', 'United Kingdom'],  
 'Language': 'English',  
 'Box office': '\$901,093'},  
 {'title': 'Project Power',  
 'Directed by': ['Henry Joost', 'Ariel Schulman'],  
 'Written by': 'Mattson Tomlin',  
 'Produced by': ['Eric Newman', 'Bryan Unkeless'],  
 'Starring': ['Jamie Foxx',  
 'Joseph Gordon-Levitt',  
 'Dominique Fishback',  
 'Rodrigo Santoro',  
 'Colson Baker',  
 'Allen Maldonado',  
 'Amy Landecker',  
 'Courtney B. Vance'],  
 'Cinematography': 'Michael Simmonds',  
 'Edited by': 'Jeff McEvoy',  
 'Music by': 'Joseph Trapanese',  
 'Production companies': ['Screen Arcade', 'Supermarche'],  
 'Distributed by': 'Netflix',

'Release date': ['August 14, 2020 ( 2020-08-14 )'],  
'Running time': '114 minutes',  
'Country': 'United States',  
'Language': 'English',  
'Budget': '\$85.1 million'},  
{ 'title': 'Skylines',  
'Directed by': 'Liam O'Donnell',  
'Screenplay by': 'Liam O'Donnell',  
'Story by': ['Matthew E. Chausse', 'Liam O'Donnell'],  
'Based on': ['Joshua Cordes', 'Liam O'Donnell'],  
'Produced by': ['Liam O'Donnell',  
'Greg Strause',  
'Colin Strause',  
'Matthew E. Chausse'],  
'Starring': ['Lindsey Morgan',  
'Jonathan Howard',  
'Daniel Bernhardt',  
'Rhona Mitra',  
'James Cosmo',  
'Alexander Siddig'],  
'Cinematography': 'Alain Duplantier',  
'Edited by': 'Barrett Heathcote',  
'Music by': 'Ram Khatabakhsh',  
'Production companies': ['Hydraulx Entertainment',  
'Liam O'Donnell Films',  
'XYZ Films',  
'm45 Productions',  
'Gifflar Films Limited',  
'Gifflar (Patriot) Films Limited',  
'UAB Cobaltas',  
'Ingenious Media',  
'Lipsync Productions LLP',  
'Artbox',  
'Fasten Films'],  
'Distributed by': 'Vertical Entertainment',  
'Release dates': ['October 25, 2020 ( 2020-10-25 ) ( FrightFest )',  
'December 18, 2020 ( 2020-12-18 ) (United States)'],  
'Running time': '110 minutes',  
'Country': 'United States',  
'Language': 'English',  
'Budget': '\$26 million',  
'Box office': '\$170,581'},  
{ 'title': 'Sonic the Hedgehog',  
'Directed by': 'Jeff Fowler',  
'Written by': ['Pat Casey', 'Josh Miller'],  
'Based on': 'Sonic the Hedgehog by Sega',  
'Produced by': ['Neal H. Moritz',  
'Toby Ascher',  
'Toru Nakahara',  
'Takeshi Ito'],  
'Starring': ['James Marsden', 'Jim Carrey'],  
'Cinematography': 'Stephen F. Windon',  
'Edited by': ['Stacey Schroeder', 'Debra Neil-Fisher'],  
'Music by': 'Tom Holkenborg',  
'Production companies': ['Sega Sammy Group',  
'Original Film',  
'Marza Animation Planet',  
'Blur Studio'],  
'Distributed by': 'Paramount Pictures',  
'Release dates': ['January 25, 2020 ( 2020-01-25 ) (Paramount Theatre)',  
'February 14, 2020 ( 2020-02-14 ) (United States)',  
'June 26, 2020 ( 2020-06-26 ) (Japan)'],  
'Running time': '99 minutes',  
'Countries': ['United States', 'Japan'],  
'Language': 'English',  
'Budget': '\$85-90 million',

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'Box office': '$320 million'},
{'title': 'Sputnik',
 'Directed by': 'Egor Abramenko',
 'Written by': ['Oleg Malovichko', 'Andrei Zolotarev'],
 'Produced by': ['Mikhail Vrubel',
 'Aleksandr Andryushchenko',
 'Fyodor Bondarchuk',
 'Ilya Stewart',
 'Murad Osmann',
 'Pavel Burya',
 'Vyacheslav Murugov',
 'Alina Tyazhlova',
 'Michael Kitaev',
 'Ilya Jincharadze'],
 'Starring': ['Oksana Akinshina',
 'Fyodor Bondarchuk',
 'Pyotr Fyodorov',
 'Anton Vasiliev'],
 'Cinematography': 'Maxim Zhukov',
 'Edited by': 'Aleksandr Puzyryov Egor Tarasenko',
 'Music by': 'Oleg Karpachev',
 'Production companies': ['Vodorod Pictures',
 'Art Pictures Studio',
 'Hype Film',
 'National Media Group Studio',
 'STS'],
 'Distributed by': 'Sony Pictures',
 'Release date': ['April 23, 2020 ( 2020-04-23 ) (Russia)'],
 'Running time': '113 minutes',
 'Country': 'Russia',
 'Language': 'Russian',
 'Budget': '₽ 190 million (~US$2.6 million)',
 'Box office': '$354,023'},
{'title': 'Tenet',
 'Directed by': 'Christopher Nolan',
 'Written by': 'Christopher Nolan',
 'Produced by': ['Emma Thomas', 'Christopher Nolan'],
 'Starring': ['John David Washington',
 'Robert Pattinson',
 'Elizabeth Debicki',
 'Dimple Kapadia',
 'Michael Caine',
 'Kenneth Branagh'],
 'Cinematography': 'Hoyte van Hoytema',
 'Edited by': 'Jennifer Lame',
 'Music by': 'Ludwig Göransson',
 'Production company': 'Syncopy',
 'Distributed by': 'Warner Bros. Pictures',
 'Release dates': ['August 26, 2020 ( 2020-08-26 ) (United Kingdom)',
 'September 3, 2020 ( 2020-09-03 ) (United States)'],
 'Running time': '150 minutes',
 'Countries': ['United Kingdom', 'United States'],
 'Language': 'English',
 'Budget': '$200\xa0million',
 'Box office': '$365.3\xa0million'},
{'title': 'Tiong Bahru Social Club',
 'Directed by': 'Tan Bee Thiam',
 'Written by': 'Antti Toivonen, Tan Bee Thiam',
 'Starring': ['Thomas Pang', 'Guat Kian Goh', 'Jalyn Han'],
 'Production companies': 'Tiger Tiger Pictures Bert Pictures 13 Little Pictures',
 'Distributed by': 'Golden Village Pictures',
 'Release dates': ['26 November 2020 ( 2020-11-26 ) (Singapore Film Festival)',
 '10 December 2020 ( 2020-12-10 )'],
 'Running time': '88 minutes',
 'Country': 'Singapore',
 'Languages': 'English (Some Mandarin, Hokkien, Cantonese, Malay, Tamil)',

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'Box office': '$$108,774'},
{'title': 'Chaos Walking',
 'Directed by': 'Doug Liman',
 'Screenplay by': ['Patrick Ness', 'Christopher Ford'],
 'Based on': 'The Knife of Never Letting Go by Patrick Ness',
 'Produced by': ['Doug Davison',
 'Allison Shearmur',
 'Erwin Stoff',
 'Alison Winter'],
 'Starring': ['Tom Holland',
 'Daisy Ridley',
 'Mads Mikkelsen',
 'Demián Bichir',
 'Cynthia Erivo',
 'Nick Jonas',
 'David Oyelowo'],
 'Cinematography': 'Ben Seresin',
 'Edited by': 'Doc Crotzer',
 'Music by': ['Marco Beltrami', 'Brandon Roberts'],
 'Production companies': ['TIK Films',
 'Quadrant Pictures',
 'Allison Shearmur Productions',
 '3 Arts Entertainment',
 'Hercules Film Fund- Bron Creative'],
 'Distributed by': 'Lionsgate',
 'Release dates': ['February 24, 2021 ( 2021-02-24 ) (South Korea)',
 'March 5, 2021 ( 2021-03-05 ) (United States)'],
 'Running time': '109 minutes',
 'Country': 'United States',
 'Language': 'English',
 'Budget': '$100-125 million',
 'Box office': '$27.1 million'},
{'title': 'Cosmic Sin',
 'Directed by': 'Edward Drake',
 'Written by': ['Edward Drake', 'Corey Large'],
 'Produced by': 'Corey Large',
 'Starring': ['Bruce Willis',
 'Frank Grillo',
 'Brandon Thomas Lee',
 'Corey Large',
 'Perrey Reeves',
 'C.J. Perry',
 'Lochlyn Munro',
 'Costas Mandylor'],
 'Cinematography': 'Brandon Cox',
 'Edited by': 'Justin Williams',
 'Music by': 'Scott Glasgow',
 'Production companies': ['308 Entertainment', 'BondIt Media Capital'],
 'Distributed by': 'Saban Films',
 'Release date': ['March 12, 2021 ( 2021-03-12 ) (United States)'],
 'Running time': '88 minutes',
 'Country': 'United States',
 'Language': 'English',
 'Box office': '$349,757'},
{'title': 'Cube',
 'Directed by': 'Yasuhiko Shimizu',
 'Screenplay by': 'Koji Tokuo',
 'Produced by': 'Akiko Funatso Satoko Ishida',
 'Starring': ['Masaki Suda',
 'Anne Watanabe',
 'Masaki Okada',
 'Hikaru Tashiro',
 'Takumi Saito',
 'Kōtarō Yoshida'],
 'Cinematography': 'Tomoyuki Kawakami Toyomichi Kurita',
 'Edited by': 'Tsuyoshi Imai',

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'Music by': 'Yutaka Yamada',
'Distributed by': 'Shochiku',
'Release date': ['October 22, 2021 ( 2021-10-22 )'],
'Country': 'Japan',
'Language': 'Japanese'},
{'title': "Don't Look Up",
'Directed by': 'Adam McKay',
'Screenplay by': 'Adam McKay',
'Story by': ['Adam McKay', 'David Sirota'],
'Produced by': ['Adam McKay', 'Kevin Messick'],
'Starring': ['Leonardo DiCaprio',
'Jennifer Lawrence',
'Rob Morgan',
'Jonah Hill',
'Mark Rylance',
'Tyler Perry',
'Timothee Chalamet',
'Ron Perlman',
'Ariana Grande',
'Kid Cudi',
'Cate Blanchett',
'Meryl Streep'],
'Cinematography': 'Linus Sandgren',
'Edited by': 'Hank Corwin',
'Music by': 'Nicholas Britell',
'Production companies': ['Hyperobject Industries', 'Bluegrass Films'],
'Distributed by': 'Netflix',
'Release dates': ['December 5, 2021 ( 2021-12-05 ) (New York City)',
'December 10, 2021 ( 2021-12-10 ) (United States)',
'December 24, 2021 ( 2021-12-24 ) (Netflix)'],
'Running time': '138 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$75 million',
'Box office': '$791,863'},
{'title': 'Dune',
'Directed by': 'Denis Villeneuve',
'Screenplay by': ['Jon Spaihts', 'Denis Villeneuve', 'Eric Roth'],
'Based on': 'Dune by Frank Herbert',
'Produced by': ['Mary Parent',
'Denis Villeneuve',
'Cale Boyter',
'Joe Caracciolo Jr.'],
'Starring': ['Timothée Chalamet',
'Rebecca Ferguson',
'Oscar Isaac',
'Josh Brolin',
'Stellan Skarsgård',
'Dave Bautista',
'Stephen McKinley Henderson',
'Zendaya',
'David Dastmalchian',
'Chang Chen',
'Sharon Duncan-Brewster',
'Charlotte Rampling',
'Jason Momoa',
'Javier Bardem'],
'Cinematography': 'Greig Fraser',
'Edited by': 'Joe Walker',
'Music by': 'Hans Zimmer',
'Production company': 'Legendary Pictures',
'Distributed by': 'Warner Bros. Pictures',
'Release dates': ['September 3, 2021 ( 2021-09-03 ) ( Venice )',
'October 22, 2021 ( 2021-10-22 ) (United States)'],
'Running time': '156 minutes',
'Country': 'United States',

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    'Language': 'English',
    'Budget': '$165 million',
    'Box office': '$401.8 million'},
{'title': 'Encounter',
 'Directed by': 'Michael Pearce',
 'Written by': ['Michael Pearce', 'Joe Barton'],
 'Produced by': ['Dimitri Doganis', 'Piers Vellacott', 'Derrin Schlesinger'],
 'Starring': ['Riz Ahmed',
 'Octavia Spencer',
 'Janina Gavankar',
 'Rory Cochrane',
 'Lucian-River Chauhan',
 'Aditya Geddada'],
 'Cinematography': 'Benjamin Kracun',
 'Edited by': 'Maya Maffioli',
 'Music by': 'Jed Kurzel',
 'Production companies': ['Amazon Studios', 'Film4 Productions', 'Raw'],
 'Distributed by': 'Amazon Studios',
 'Release dates': ['September 3, 2021 ( 2021-09-03 ) ( Telluride )',
 'December 3, 2021 ( 2021-12-03 ) (United States)'],
 'Running time': '108 minutes',
 'Countries': ['United Kingdom', 'United States'],
 'Language': 'English'},
{'title': 'Evangelion: 3.0+1.0 Thrice Upon a Time',
 'Japanese': 'シン・エヴァンゲリオン劇場版Ⅲ',
 'Hepburn': 'Shin Evangerion Gekijōban Ⅲ',
 'Literally': 'New Evangelion Theatrical Edition Ⅲ',
 'Directed by': ['Hideaki Anno Kazuya Tsurumaki Katsuichi Nakayama Mahiro Maeda'],
 'Screenplay by': 'Hideaki Anno',
 'Based on': 'Neon Genesis Evangelion by Hideaki Anno',
 'Produced by': ['Hideaki Anno Tomoyuki Ogata'],
 'Starring': 'Megumi Ogata Megumi Hayashibara Yuko Miyamura Maaya Sakamoto Akira Ishida
Kotono Mitsuishi',
 'Cinematography': 'Toru Fukushi',
 'Edited by': 'Emi Tsujita',
 'Music by': 'Shirō Sagisu',
 'Production company': 'Studio Khara',
 'Distributed by': ['Toho Company', 'Toei Company'],
 'Release date': ['March 8, 2021 ( 2021-03-08 )'],
 'Running time': '155 minutes',
 'Country': 'Japan',
 'Language': 'Japanese',
 'Box office': '¥10.28 billion ( $93.67 million )'},
{'title': 'Finch',
 'Directed by': 'Miguel Sapochnik',
 'Written by': ['Craig Luck', 'Ivor Powell'],
 'Produced by': ['Jacqueline Levine',
 'Kevin Misher',
 'Ivor Powell',
 'Jack Rapke'],
 'Starring': ['Tom Hanks', 'Caleb Landry Jones'],
 'Cinematography': 'Jo Willems',
 'Edited by': 'Tim Porter',
 'Music by': 'Gustavo Santaolalla',
 'Production companies': ['Amblin Entertainment',
 'Apple Original Films',
 'ImageMovers',
 'Misher Films',
 'Reliance Entertainment',
 'Walden Media'],
 'Distributed by': 'Apple Studios',
 'Release date': ['November 5, 2021 ( 2021-11-05 )'],
 'Running time': '115 minutes',
 'Country': 'United States',
 'Language': 'English'},
{'title': 'The Forever Purge',

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'Directed by': 'Everardo Valerio Gout',  
 'Written by': 'James DeMonaco',  
 'Based on': 'Characters by James DeMonaco',  
 'Produced by': ['Jason Blum',  
 'Michael Bay',  
 'Andrew Form',  
 'Brad Fuller',  
 'Sébastien K. Lemerrier',  
 'James DeMonaco'],  
 'Starring': ['Ana de la Reguera',  
 'Tenoch Huerta',  
 'Josh Lucas',  
 'Cassidy Freeman',  
 'Leven Rambin',  
 'Will Patton'],  
 'Cinematography': 'Luis Sansans',  
 'Edited by': ['Todd E. Miller', 'Vincent Tabailon', 'Tim Alverson'],  
 'Music by': 'The Newton Brothers',  
 'Production companies': ['Perfect World Pictures',  
 'Platinum Dunes',  
 'Blumhouse Productions',  
 'Man in a Tree Productions'],  
 'Distributed by': 'Universal Pictures',  
 'Release date': ['July 2, 2021 ( 2021-07-02 )'],  
 'Running time': '103 minutes',  
 'Country': 'United States',  
 'Languages': ['English', 'Spanish'],  
 'Budget': '\$18 million',  
 'Box office': '\$77 million'},  
 {'title': 'Ghostbusters: Afterlife',  
 'Directed by': 'Jason Reitman',  
 'Written by': ['Gil Kenan', 'Jason Reitman'],  
 'Based on': 'Ghostbusters by Dan Aykroyd Harold Ramis',  
 'Produced by': 'Ivan Reitman',  
 'Starring': ['Carrie Coon',  
 'Finn Wolfhard',  
 'Mckenna Grace',  
 'Annie Potts',  
 'Ernie Hudson',  
 'Paul Rudd'],  
 'Cinematography': 'Eric Steelberg',  
 'Edited by': ['Dana E. Glauberman', 'Nathan Orloff'],  
 'Music by': 'Rob Simonsen',  
 'Production companies': ['Columbia Pictures',  
 'Bron Creative',  
 'Ghost Corps',  
 'The Montecito Picture Company',  
 'Right of Way Films'],  
 'Distributed by': 'Sony Pictures Releasing',  
 'Release dates': ['August 23, 2021 ( 2021-08-23 ) ( CinemaCon )',  
 'November 19, 2021 ( 2021-11-19 ) ( United States )'],  
 'Running time': '124 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$75 million',  
 'Box office': '\$204.4 million'},  
 {'title': 'Glasshouse',  
 'Directed by': 'Kelsey Egan',  
 'Written by': ['Emma Lungiswa de Wet', 'Kelsey Egan'],  
 'Produced by': 'Greig Buckle',  
 'Starring': ['Jessica Alexander', 'Anja Taljaard', 'Hilton Pelsner'],  
 'Cinematography': 'Justus de Jager',  
 'Edited by': 'Rowan Jackson',  
 'Music by': 'Patrick Cannell',  
 'Production companies': ['Local Motion Pictures',  
 'Crave Pictures'],

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'Rigel Films'],
'Distributed by': ['MultiChoice Studios', 'Showmax'],
'Release date': ['16 August 2021 ( 2021-08-16 )'],
'Country': 'South Africa',
'Language': 'English'},
{'title': 'Godzilla vs. Kong',
'Directed by': 'Adam Wingard',
'Screenplay by': ['Eric Pearson', 'Max Borenstein'],
'Story by': ['Terry Rossio', 'Michael Dougherty', 'Zach Shields'],
'Based on': ['Godzilla and Mechagodzilla by Toho Co., Ltd',
'King Kong by Edgar Wallace Merian C. Cooper',
'Edgar Wallace',
'Merian C. Cooper'],
'Produced by': ['Thomas Tull',
'Jon Jashni',
'Brian Rogers',
'Mary Parent',
'Alex Garcia',
'Eric McLeod'],
'Starring': ['Alexander Skarsgård',
'Millie Bobby Brown',
'Rebecca Hall',
'Brian Tyree Henry',
'Shun Oguri',
'Eiza González',
'Julian Dennison',
'Lance Reddick',
'Kyle Chandler',
'Demián Bichir'],
'Cinematography': 'Ben Seresin',
'Edited by': 'Josh Schaeffer',
'Music by': 'Tom Holkenborg',
'Production company': 'Legendary Pictures',
'Distributed by': ['Warner Bros. Pictures (Worldwide)', 'Toho (Japan)'],
'Release dates': ['March 24, 2021 ( 2021-03-24 ) (International)',
'March 31, 2021 ( 2021-03-31 ) (United States)'],
'Running time': '113 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$155-200 million',
'Box office': '$470.1 million'},
{'title': 'Little Fish',
'Directed by': 'Chad Hartigan',
'Screenplay by': 'Mattson Tomlin',
'Based on': '"Little Fish" by Aja Gabel',
'Produced by': ['Lia Buman',
'Rian Cahill',
'Tim Headington',
'Brian Kavanaugh-Jones',
'Mattson Tomlin'],
'Starring': ['Olivia Cooke', 'Jack O'Connell', 'Raúl Castillo', 'Soko'],
'Cinematography': 'Sean McElwee',
'Edited by': 'Josh Crockett',
'Music by': 'Keegan DeWitt',
'Production companies': ['Automatik',
'Black Bear Pictures',
'Tango Entertainment',
'Oddfellows Entertainment'],
'Distributed by': 'IFC Films',
'Release dates': ['October 1, 2020 ( 2020-10-01 ) ( Newport Beach Film Festival )',
'February 5, 2021 ( 2021-02-05 ) (United States)'],
'Running time': '101 minutes',
'Country': 'United States',
'Language': 'English',
'Box office': '$39,053'},
{'title': 'The Matrix Resurrections',

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'Directed by': 'Lana Wachowski',  
'Written by': ['Lana Wachowski', 'David Mitchell', 'Aleksandar Hemon'],  
'Based on': 'Characters by The Wachowskis',  
'Produced by': ['James McTeigue', 'Lana Wachowski', 'Grant Hill'],  
'Starring': ['Keanu Reeves',  
'Carrie-Anne Moss',  
'Yahya Abdul-Mateen II',  
'Jessica Henwick',  
'Jonathan Groff',  
'Neil Patrick Harris',  
'Priyanka Chopra Jonas',  
'Jada Pinkett Smith'],  
'Cinematography': ['Daniele Massaccesi', 'John Toll'],  
'Edited by': 'Joseph Jett Sally',  
'Music by': ['Johnny Klimek', 'Tom Tykwer'],  
'Production companies': ['Warner Bros. Pictures',  
'Village Roadshow Pictures',  
'Venus Castina Productions'],  
'Distributed by': 'Warner Bros. Pictures',  
'Release dates': ['December 18, 2021 ( 2021-12-18 ) ( Castro Theater )',  
'December 22, 2021 ( 2021-12-22 ) (United States)'],  
'Running time': '148 minutes',  
'Country': 'United States',  
'Language': 'English',  
'Budget': '\$190 million',  
'Box office': '\$157.3 million'},  
{ 'title': 'Mother/Android',  
'Directed by': 'Mattson Tomlin',  
'Written by': 'Mattson Tomlin',  
'Produced by': ['Matt Reeves',  
'Bill Block',  
'Mattson Tomlin',  
'Rafi Crohn',  
'Adam Kassan',  
'Charles Miller'],  
'Starring': ['Chloë Grace Moretz', 'Algee Smith', 'Raúl Castillo'],  
'Cinematography': 'Patrick Scola',  
'Edited by': 'Andrew Groves',  
'Music by': ['Kevin Henthorn', 'Michelle Birskey'],  
'Production companies': ['Miramax', '6th & Idaho Motion Picture Company'],  
'Distributed by': ['Hulu (United States)', 'Netflix (International)'],  
'Release dates': ['December 17, 2021 ( 2021-12-17 ) (United States)',  
'January 7, 2022 ( 2022-01-07 ) (International)'],  
'Running time': '111 minutes',  
'Country': 'United States',  
'Language': 'English'},  
{ 'title': 'Needle in a Timestack',  
'Directed by': 'John Ridley',  
'Written by': 'John Ridley',  
'Based on': '"Needle in a Timestack" by Robert Silverberg',  
'Produced by': ['Zanne Devine',  
'Aaron L. Gilbert',  
'Matt Kennedy',  
'David Thwaites'],  
'Starring': ['Leslie Odom Jr.',  
'Freida Pinto',  
'Cynthia Erivo',  
'Orlando Bloom',  
'Jadyn Wong'],  
'Cinematography': 'Ramsey Nickell',  
'Edited by': 'Luyen Vu',  
'Music by': 'Mark Isham',  
'Production companies': ['Bron Studios',  
'Pacific Northwest Pictures',  
'Ember20',  
'International Famous Players Radio Picture Corporation'],

'Distributed by': 'Lionsgate',  
'Release date': ['October 15, 2021 ( 2021-10-15 ) (United States)'],  
'Running time': '111 minutes',  
'Country': 'United States',  
'Language': 'English'},  
{'title': 'Night Raiders',  
'Directed by': 'Danis Goulet',  
'Screenplay by': 'Danis Goulet',  
'Produced by': ['Paul Barkin',  
'Tara Woodbury',  
'Georgina Conder',  
'Chelsea Winstanley',  
'Ainsley Gardiner'],  
'Starring': ['Elle-Máijá Tailfeathers',  
'Brooklyn Letexier-Hart',  
'Alex Tarrant',  
'Amanda Plummer',  
'Violet Nelson'],  
'Cinematography': 'Daniel Grant',  
'Edited by': 'Jorge Weisz',  
'Music by': 'Moniker',  
'Production company': 'XYZ Films',  
'Distributed by': 'Samuel Goldwyn Films',  
'Release date': ['March 2021 ( 2021-03 ) ( Berlinale )'],  
'Running time': '101 minutes',  
'Countries': ['Canada (Hamilton,Toronto Ontario)', 'New Zealand'],  
'Language': 'English'},  
{'title': 'Outside the Wire',  
'Directed by': 'Mikael Håfström',  
'Screenplay by': ['Rob Yescombe', 'Rowan Athale'],  
'Story by': 'Rob Yescombe',  
'Produced by': ['Brian Kavanaugh-Jones',  
'Anthony Mackie',  
'Ben Pugh',  
'Erica Steinberg',  
'Jason Spire',  
'Arash Amel'],  
'Starring': ['Anthony Mackie',  
'Damson Idris',  
'Emily Beecham',  
'Michael Kelly',  
'Pilou Asbæk'],  
'Cinematography': 'Michael Bonvillain',  
'Edited by': 'Rickard Krantz',  
'Music by': 'Lorne Balfe',  
'Production companies': ['Automatik Entertainment',  
'42 Films',  
'Inspire Entertainment'],  
'Distributed by': 'Netflix',  
'Release date': ['January 15, 2021 ( 2021-01-15 )'],  
'Running time': '115 minutes',  
'Country': 'United States',  
'Language': 'English'},  
{'title': 'Oxygen',  
'Directed by': 'Alexandre Aja',  
'Written by': 'Christie LeBlanc',  
'Produced by': ['Alexandre Aja',  
'Grégory Levasseur',  
'Vincent Maraval',  
'Brahim Chioua',  
'Noémie Devide'],  
'Starring': ['Mélanie Laurent', 'Mathieu Amalric', 'Malik Zidi'],  
'Cinematography': 'Maxime Alexandre',  
'Edited by': 'Hervé Schneid',  
'Music by': 'Rob',  
'Production companies': ['Gateway Films',

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    'Wild Bunch',
    'Echo Lake Entertainment'],
    'Distributed by': 'Netflix',
    'Release date': ['May 12, 2021 ( 2021-05-12 )'],
    'Running time': '101 minutes',
    'Countries': ['United States', 'France'],
    'Language': 'French'},
{'title': 'Quarantine',
 'Directed by': 'Diana Ringo',
 'Written by': 'Diana Ringo',
 'Produced by': 'Diana Ringo',
 'Starring': 'Anatoliy Beliy , Aleksandr Obmanov',
 'Cinematography': 'Dmitry Strizhevsky',
 'Edited by': 'Diana Ringo',
 'Music by': 'Diana Ringo',
 'Production company': 'AElita Productions',
 'Release dates': ['14 September 2021 ( 2021-09-14 ) (Amur Autumn Film and Theater Fest
ival)',
 '2 November 2021 ( 2021-11-02 ) (Amazon Prime)'],
 'Running time': '74 minutes',
 'Countries': 'Russia, Ukraine, Finland',
 'Language': 'Russian'},
{'title': 'Reminiscence',
 'Directed by': 'Lisa Joy',
 'Written by': 'Lisa Joy',
 'Produced by': ['Lisa Joy',
 'Jonathan Nolan',
 'Michael De Luca',
 'Aaron Ryder'],
 'Starring': ['Hugh Jackman',
 'Rebecca Ferguson',
 'Thandiwe Newton',
 'Cliff Curtis'],
 'Cinematography': 'Paul Cameron',
 'Edited by': 'Mark Yoshikawa',
 'Music by': 'Ramin Djawadi',
 'Production companies': ['FilmNation Entertainment',
 'Kilter Films',
 'Michael De Luca Productions'],
 'Distributed by': 'Warner Bros. Pictures',
 'Release dates': ['August 11, 2021 ( 2021-08-11 ) ( BFI IMAX )',
 'August 20, 2021 ( 2021-08-20 ) (United States)'],
 'Running time': '116 minutes',
 'Country': 'United States',
 'Language': 'English',
 'Budget': '$54-68 million',
 'Box office': '$16.4 million'},
{'title': 'Settlers',
 'Directed by': 'Wyatt Rockefeller',
 'Screenplay by': 'Wyatt Rockefeller',
 'Produced by': ['Julie Fabrizio',
 'Joshua Horsfield',
 'Johan Kruger',
 'Jason Mandl',
 'Kenny Moleme'],
 'Starring': ['Sofia Boutella',
 'Ismael Cruz Córdova',
 'Brooklyn Prince',
 'Nell Tiger Free',
 'Jonny Lee Miller'],
 'Cinematography': 'Willie Nel',
 'Edited by': 'Johnny Daukes',
 'Music by': 'Nitin Sawhney',
 'Production companies': ['Jericho Motion Pictures',
 'Intake Films',
 'Brittle Star Pictures',

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'42'],
'Distributed by': 'IFC Midnight',
'Release dates': ['18 June 2021 ( 2021-06-18 ) ( Tribeca )',
'23 July 2021 ( 2021-07-23 ) (United Kingdom)'],
'Running time': '103 minutes',
'Country': 'United Kingdom',
'Language': 'English',
'Box office': '$29,183}},
{'title': 'Stowaway',
'Directed by': 'Joe Penna',
'Written by': ['Joe Penna', 'Ryan Morrison'],
'Produced by': ['Aram Tertzakian',
'Nick Spicer',
'Jonas Katzenstein',
'Maximilian Leo',
'Ulrich Schwarz',
'Clay Pecorin'],
'Starring': ['Anna Kendrick',
'Daniel Dae Kim',
'Shamier Anderson',
'Toni Collette'],
'Cinematography': 'Klemens Becker',
'Edited by': 'Ryan Morrison',
'Music by': 'Volker Bertelmann',
'Production companies': ['XYZ Films',
'Augenschein Filmproduktion',
'Rise Pictures',
'RainMaker Films'],
'Distributed by': ['Netflix (select countries)', 'Wild Bunch (Germany)'],
'Release date': ['April 22, 2021 ( 2021-04-22 )'],
'Running time': '116 minutes',
'Countries': ['United States', 'Germany'],
'Language': 'English',
'Budget': '$10 million}},
{'title': 'Space Sweepers',
'Hangul': '승리호',
'Hanja': '勝利號',
'Revised Romanization': 'Seungriho',
'Directed by': 'Jo Sung-hee',
'Written by': ['Yoon Seung-min', 'Yoo-kang Seo-ae', 'Jo Sung-hee'],
'Produced by': ['Yoon In-beom', 'Kim Soo-jin'],
'Starring': ['Song Joong-ki', 'Kim Tae-ri', 'Jin Seon-kyu', 'Yoo Hae-jin'],
'Cinematography': 'Byun Bong-sun',
'Edited by': ['Nam Na-young', 'Ha Mi-ra'],
'Music by': 'Kim Tae-seong',
'Production companies': ['Bidangil Pictures', 'Dexter Studios'],
'Distributed by': 'Netflix',
'Release date': ['February 5, 2021 ( 2021-02-05 )'],
'Running time': '136 minutes',
'Country': 'South Korea',
'Languages': 'Korean English',
'Budget': '₩24 billion (~US$21.2 million)}},
{'title': 'Spider-Man: No Way Home',
'Directed by': 'Jon Watts',
'Written by': ['Chris McKenna', 'Erik Sommers'],
'Based on': ['Stan Lee', 'Steve Ditko'],
'Produced by': ['Kevin Feige', 'Amy Pascal'],
'Starring': ['Tom Holland',
'Zendaya',
'Benedict Cumberbatch',
'Jacob Batalon',
'Jon Favreau',
'Jamie Foxx',
'Willem Dafoe',
'Alfred Molina',
'Benedict Wong'],

```

'Tony Revolori',  
 'Marisa Tomei',  
 'Andrew Garfield',  
 'Tobey Maguire'],  
 'Cinematography': 'Mauro Fiore',  
 'Edited by': ['Jeffrey Ford', 'Leigh Folsom Boyd'],  
 'Music by': 'Michael Giacchino',  
 'Production companies': ['Columbia Pictures',  
 'Marvel Studios',  
 'Pascal Pictures'],  
 'Distributed by': 'Sony Pictures Releasing',  
 'Release dates': ['December 13, 2021 ( 2021-12-13 ) ( Fox Village Theatre )',  
 'December 17, 2021 ( 2021-12-17 ) (United States)'],  
 'Running time': '148 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$200 million',  
 'Box office': '\$1.916 billion'},  
 {'title': 'Strawberry Mansion',  
 'Directed by': ['Albert Birney', 'Kentucker Audley'],  
 'Written by': ['Albert Birney', 'Kentucker Audley'],  
 'Produced by': ['Sarah Winshall',  
 'Taylor Shung',  
 'Emma Hannaway',  
 'Matisse Rifai'],  
 'Starring': ['Penny Fuller',  
 'Kentucker Audley',  
 'Grace Glowicki',  
 'Reed Birney',  
 'Linas Phillips',  
 'Constance Shulman'],  
 'Cinematography': 'Tyler Davis',  
 'Edited by': ['Albert Birney', 'Kentucker Audley'],  
 'Music by': 'Dan Deacon',  
 'Production companies': ['Ley Line Entertainment',  
 'Kaleidoscope Pictures',  
 'Salem Street Entertainment',  
 'UnLTD Productions',  
 'Cartuna'],  
 'Distributed by': 'Music Box Films (United States) Alief (International)',  
 'Release dates': ['January 29, 2021 ( 2021-01-29 ) ( Sundance )',  
 'February 18, 2022 ( 2022-02-18 ) (United States)'],  
 'Running time': '91 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Box office': '\$97,526'},  
 {'title': 'The Suicide Squad',  
 'Directed by': 'James Gunn',  
 'Written by': 'James Gunn',  
 'Based on': 'Characters from DC',  
 'Produced by': ['Charles Roven', 'Peter Safran'],  
 'Starring': ['Margot Robbie',  
 'Idris Elba',  
 'John Cena',  
 'Joel Kinnaman',  
 'Sylvester Stallone',  
 'Viola Davis',  
 'Jai Courtney',  
 'Peter Capaldi'],  
 'Cinematography': 'Henry Braham',  
 'Edited by': ['Fred Raskin', 'Christian Wagner'],  
 'Music by': 'John Murphy',  
 'Production companies': ['DC Films',  
 'Atlas Entertainment',  
 'The Safran Company'],  
 'Distributed by': 'Warner Bros. Pictures',



'Release dates': ['July 30, 2021 ( 2021-07-30 ) (United Kingdom)',  
 'August 5, 2021 ( 2021-08-05 ) (United States)'],  
 'Running time': '132 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$185 million',  
 'Box office': '\$168.7 million'},  
 {'title': 'Tides',  
 'Directed by': 'Tim Fehlbaum',  
 'Screenplay by': ['Tim Fehlbaum', 'Mariko Minoguchi'],  
 'Produced by': ['Thomas Wöbke',  
 'Philipp Trauer',  
 'Ruth Waldburger',  
 'Constanze Guttman'],  
 'Starring': ['Nora Arnezeder',  
 'Sarah-Sofie Boussnina',  
 'Iain Glen',  
 'Joel Basman',  
 'Sebastian Roché',  
 'Bella Bading',  
 'Sope Dirisu',  
 'Cloé Albertine Heinrich'],  
 'Cinematography': 'Markus Förderer',  
 'Edited by': 'Andreas Menn',  
 'Music by': 'Lorenz Dangel',  
 'Production companies': ['BerghausWöbke Filmproduktion',  
 'Vega Film',  
 'Constantin Film'],  
 'Distributed by': ['Constantin Film (Germany)',  
 'Saban Films (North America)'],  
 'Release dates': ['March 1, 2021 ( 2021-03-01 ) ( Berlinale )',  
 'August 26, 2021 ( 2021-08-26 ) (Germany)',  
 'August 27, 2021 ( 2021-08-27 ) (North America)'],  
 'Running time': '104 min',  
 'Countries': ['Germany', 'Switzerland'],  
 'Language': 'English'}},  
 {'title': 'The Tomorrow War',  
 'Directed by': 'Chris McKay',  
 'Written by': 'Zach Dean',  
 'Produced by': ['David Ellison',  
 'Dana Goldberg',  
 'Don Granger',  
 'Jules Daly',  
 'David S. Goyer',  
 'Adam Kolbrenner'],  
 'Starring': ['Chris Pratt',  
 'Yvonne Strahovski',  
 'J. K. Simmons',  
 'Betty Gilpin',  
 'Sam Richardson',  
 'Edwin Hodge'],  
 'Cinematography': 'Larry Fong',  
 'Edited by': ['Roger Barton', 'Garret Elkins'],  
 'Music by': 'Lorne Balfe',  
 'Production companies': ['Skydance',  
 'Paramount Pictures',  
 'New Republic Pictures'],  
 'Distributed by': 'Amazon Studios',  
 'Release date': ['July 2, 2021 ( 2021-07-02 )'],  
 'Running time': '138 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$200 million',  
 'Box office': '\$19.2 million'},  
 {'title': 'Venom: Let There Be Carnage',  
 'Directed by': 'Andy Serkis',

'Screenplay by': 'Kelly Marcel',  
'Story by': ['Tom Hardy', 'Kelly Marcel'],  
'Based on': 'Marvel Comics',  
'Produced by': ['Avi Arad',  
'Matt Tolmach',  
'Amy Pascal',  
'Kelly Marcel',  
'Tom Hardy',  
'Hutch Parker'],  
'Starring': ['Tom Hardy',  
'Michelle Williams',  
'Naomie Harris',  
'Reid Scott',  
'Stephen Graham',  
'Woody Harrelson'],  
'Cinematography': 'Robert Richardson',  
'Edited by': ['Maryann Brandon', 'Stan Salfas'],  
'Music by': 'Marco Beltrami',  
'Production companies': ['Columbia Pictures',  
'Marvel Entertainment',  
'Arad Productions',  
'Matt Tolmach Productions',  
'Pascal Pictures'],  
'Distributed by': 'Sony Pictures Releasing',  
'Release dates': ['September 14, 2021 ( 2021-09-14 ) (London)',  
'October 1, 2021 ( 2021-10-01 ) (United States)'],  
'Running time': '97 minutes',  
'Country': 'United States',  
'Language': 'English',  
'Budget': '\$110 million',  
'Box office': '\$506.9 million'},  
{ 'title': 'Voyagers',  
'Directed by': 'Neil Burger',  
'Written by': 'Neil Burger',  
'Produced by': ['Basil Iwanyk', 'Neil Burger', 'Brendon Boyea'],  
'Starring': ['Tye Sheridan',  
'Lily-Rose Depp',  
'Fionn Whitehead',  
'Colin Farrell',  
'Chanté Adams',  
'Isaac Hempstead Wright',  
'Viveik Kalra',  
'Archie Renaux',  
'Quintessa Swindell'],  
'Cinematography': 'Enrique Chediak',  
'Edited by': 'Naomi Geraghty',  
'Music by': 'Trevor Gureckis',  
'Production companies': ['AGC Studios',  
'Thunder Road',  
'Nota Bene Films',  
'Fibonacci Films',  
'Stillking Films',  
'Freecss Films',  
'Ingenious Media'],  
'Distributed by': 'Lionsgate',  
'Release date': ['April 9, 2021 ( 2021-04-09 ) (United States)'],  
'Running time': '108 minutes',  
'Countries': ['United States',  
'United Kingdom',  
'Czech Republic',  
'Romania'],  
'Language': 'English',  
'Budget': '\$29 million',  
'Box office': '\$4.2 million'},  
{ 'title': 'Warning',  
'Directed by': 'Agata Alexander',

'Written by': ['Agata Alexander', 'Rob Michaelson', 'Jason Kaye'],  
 'Produced by': ['Cybill Lui', 'Stanislaw Dziedzic'],  
 'Starring': ['Alex Pettyfer',  
 'Alice Eve',  
 'Annabel Mullion',  
 'Annabelle Wallis',  
 'Benedict Samuel',  
 'Charlotte Le Bon',  
 'Garance Marillier',  
 'Kylie Bunbury',  
 'Patrick Schwarzenegger',  
 'Rupert Everett',  
 'Thomas Jane',  
 'Tomasz Kot',  
 'Toni Garrn',  
 'James D'Arcy'],  
 'Cinematography': 'Jakub Kijowski',  
 'Edited by': ['Nikodem Chabior', 'Cam Mclauchlin'],  
 'Music by': 'Gregory Tripi',  
 'Production companies': ['Grindstone Entertainment Group',  
 'Anova Pictures',  
 'Film Produkcja',  
 'Studio Mao',  
 'Lost Lane Entertainment',  
 'Particular Crowd',  
 'Needle's Eye Entertainment'],  
 'Distributed by': 'Lionsgate',  
 'Release date': ['October 13, 2021 ( 2021-10-13 ) ( Sitges )'],  
 'Running time': '85 minutes',  
 'Countries': ['United States', 'Poland'],  
 'Language': 'English'},  
 {'title': 'Zack Snyder's Justice League',  
 'Directed by': 'Zack Snyder',  
 'Screenplay by': 'Chris Terrio',  
 'Story by': ['Chris Terrio', 'Zack Snyder', 'Will Beall'],  
 'Based on': 'Characters from DC',  
 'Produced by': ['Charles Roven', 'Deborah Snyder'],  
 'Starring': ['Ben Affleck',  
 'Henry Cavill',  
 'Amy Adams',  
 'Gal Gadot',  
 'Ray Fisher',  
 'Jason Momoa',  
 'Ezra Miller',  
 'Willem Dafoe',  
 'Jesse Eisenberg',  
 'Jeremy Irons',  
 'Diane Lane',  
 'Connie Nielsen',  
 'J. K. Simmons'],  
 'Cinematography': 'Fabian Wagner',  
 'Edited by': 'David Brenner',  
 'Music by': 'Tom Holkenborg',  
 'Production companies': ['Warner Bros. Pictures',  
 'Access Entertainment',  
 'Dune Entertainment',  
 'DC Films',  
 'Atlas Entertainment',  
 'The Stone Quarry'],  
 'Distributed by': ['HBO Max', 'Warner Bros. Pictures'],  
 'Release date': ['March 18, 2021 ( 2021-03-18 )'],  
 'Running time': '242 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$70 million'},  
 {'title': 'Zone 414',

```

'Directed by': 'Andrew Baird',
'Written by': 'Bryan Edward Hill',
'Produced by': ['Martin Brennan',
'Jib Polhemus',
'Deborah Shaw-Kolar',
'Andrew Baird'],
'Starring': ['Guy Pearce', 'Matilda Lutz', 'Jonathan Aris', 'Travis Fimmel'],
'Cinematography': 'James Mather',
'Edited by': 'Tony Cranstoun',
'Music by': 'Raffertie',
'Production companies': ['Highland Film Group',
'El Ride Productions',
'Northern Ireland Screen',
'23ten Productions',
'Source Management + Production',
'Bairdfilm',
'Great Point Media'],
'Distributed by': 'Saban Films',
'Release date': ['September 3, 2021 ( 2021-09-03 )'],
'Running time': '99 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$5 million'}}

```

## 3.0 Data cleansing/enhancing

### Tasks

- Render appropriate strings (no duplicative, concatenated strings) done 2.2.2 while creating infobox
- Remove references (superscripts) ,implemented in 2.2.2 as remove\_tag
- Convert categories into correct data types
  - budget, box office money, running time into integer

## 3.1 Convert movie's budget/box office into float(better precision)

Budget/box office is in form of string:

125million, 6–12 million (range), 1, 500, 000(*value*), 85.1 million(decimals)

using regular expression can convert them easily

### Before conversion :

```

In [10]: print('Budget')
         for movie in movie_detail_list:
             print([movie.get('Budget', 'N/A')], end=' , ')
         print('')
         print('')
         print('')
         print('Box office')
         for movie in movie_detail_list:
             print([movie.get('Box office')], end=' , ')

```

Budget

```

['N/A'] , ['N/A'] , ['$125 million'] , ['$25 million'] , ['$45 million'] , ['N/A'] ,
['$6-12 million'] , [['£ 786 million', '$15-22 million']] , ['N/A'] , ['N/A'] , ['$1,50

```

```

0,000'] , ['$14.8 million ( ₪ 944 million)'] , ['$7 million'] , ['$25 million'] , ['$100
million'] , ['N/A'] , ['$67-80 million'] , ['N/A'] , ['N/A'] , ['$85.1 million'] , ['$26
million'] , ['$85-90 million'] , ['₪ 190 million (~US$2.6 million)'] , ['$200\xa0millio
n'] , ['N/A'] , ['$100-125 million'] , ['N/A'] , ['N/A'] , ['$75 million'] , ['$165 mill
ion'] , ['N/A'] , ['N/A'] , ['N/A'] , ['$18 million'] , ['$75 million'] , ['N/A'] , ['$1
55-200 million'] , ['N/A'] , ['$190 million'] , ['N/A'] , ['N/A'] , ['N/A'] , ['N/A'] ,
['N/A'] , ['N/A'] , ['$54-68 million'] , ['N/A'] , ['$10 million'] , ['₩24 billion (~US
$21.2 million)'] , ['$200 million'] , ['N/A'] , ['$185 million'] , ['N/A'] , ['$200 mill
ion'] , ['$110 million'] , ['$29 million'] , ['N/A'] , ['$70 million'] , ['$5 million']
,

```

Box office

```

[None] , ['$242,195'] , [None] , ['$6.3 million'] , ['$37.3 million'] , ['$39,328'] ,
 ['$1 million'] , [['₪106.6 million', '$1.4 million (Worldwide)', '$1.4 million (Russia/
CIS )']] , [None] , [None] , [None] , ['$15.8 million ( ₪ 960 million)'] , ['$144.5 mill
ion'] , ['$99,924'] , ['$3 million'] , [None] , ['$49.2 million'] , ['$95,384'] , ['$90
1,093'] , [None] , ['$170,581'] , ['$320 million'] , ['$354,023'] , ['$365.3\xa0millio
n'] , ['$108,774'] , ['$27.1 million'] , ['$349,757'] , [None] , ['$791,863'] , ['$401.
8 million'] , [None] , ['¥10.28 billion ( $93.67 million )'] , [None] , ['$77 million']
, ['$204.4 million'] , [None] , ['$470.1 million'] , ['$39,053'] , ['$157.3 million'] ,
[None] , [None] , [None] , [None] , [None] , [None] , ['$16.4 million'] , ['$29,183'] ,
[None] , [None] , ['$1.916 billion'] , ['$97,526'] , ['$168.7 million'] , [None] , ['$1
9.2 million'] , ['$506.9 million'] , ['$4.2 million'] , [None] , [None] , [None] ,

```

### 3.1.1 implement regular expression for conversion

```

In [11]: import re

#choice of value magnitude
magnitude = r"million|billion"

# \.*\d (.more digits)
# ,\d{3}* (comma and 3 digits * means not must needed e.g '$349,757')
digit = r"(\d+(\,\d{3})*\.*\d*)"

# e.g $1,500,000
value_regex = rf"\${digit}"
# e.g $6-12 million
word_regex = rf"\${digit}(-|-)?({digit})?\s({magnitude})"

#magnitude words into value
def word_into_value(word):
    magnitude_match = {"million": 1000000, "billion": 1000000000}
    return magnitude_match[word]

#handle word type only
def create_word_type(inputString):
    valueString = re.search(digit, inputString).group()

    # replace the comma such as 100,000 become 100000
    value = float(valueString.replace(",", ""))

    # get in lower case
    word = re.search(magnitude, inputString).group().lower()
    word_value = word_into_value(word)
    return word_value*value

#handle value type only
def create_value_type(inputString):
    valueString = re.search(digit, inputString).group()

```

```

#replace the comma such as 100,000 become 100000
value = float(valueString.replace(",", ""))
return value

def convert_money(money):
    # return none if cant get anything to do conversion
    if money == "N/A":
        return None

    if isinstance(money, list):
        money = money[0]

    valueFormat = re.search(value_regex, money)
    wordFormat = re.search(word_regex, money)

    if wordFormat:
        return create_word_type(wordFormat.group())

    elif valueFormat:
        return create_value_type(valueFormat.group())

    else:
        return None

#test value type
print(convert_money('$1,500,000'))

#test word type
print(convert_money('$125 million'))
print(convert_money('$6-12 million')) # return the lower range
print(convert_money('$85.1 million'))

#convert the data types

for movie in movie_detail_list:
    movie['Budget (float)'] = convert_money(movie.get('Budget', "N/A"))
    movie['Box office (float)'] = convert_money(movie.get('Box office', "N/A"))

```

```

1500000.0
125000000.0
6000000.0
85100000.0

```

## After conversion :

```

In [12]: print('Budget')
for movie in movie_detail_list:
    print([movie.get('Budget (float)', 'N/A')],end=" , ")
print('')
print('')
print('')
print('Box office')
for movie in movie_detail_list:
    print([movie.get('Box office (float)')],end=" , ")

```

```

Budget
[None] , [None] , [125000000.0] , [25000000.0] , [45000000.0] , [None] , [6000000.0] ,
[None] , [None] , [None] , [150000.0] , [14800000.0] , [7000000.0] , [25000000.0] , [10
000000.0] , [None] , [67000000.0] , [None] , [None] , [85100000.0] , [26000000.0] , [85
000000.0] , [2600000.0] , [200000000.0] , [None] , [100000000.0] , [None] , [None] , [75
000000.0] , [165000000.0] , [None] , [None] , [None] , [18000000.0] , [75000000.0] , [No
ne] , [155000000.0] , [None] , [190000000.0] , [None] , [None] , [None] , [None] , [Non

```

```
e] , [None] , [54000000.0] , [None] , [10000000.0] , [21200000.0] , [200000000.0] , [None] , [185000000.0] , [None] , [200000000.0] , [110000000.0] , [29000000.0] , [None] , [70000000.0] , [5000000.0] ,
```

Box office

```
[None] , [242195.0] , [None] , [6300000.0] , [37300000.0] , [39328.0] , [1000000.0] , [None] , [None] , [None] , [None] , [15800000.0] , [144500000.0] , [99924.0] , [3000000.0] , [None] , [49200000.0] , [95384.0] , [901093.0] , [None] , [170581.0] , [320000000.0] , [354023.0] , [365300000.0] , [108774.0] , [27100000.0] , [349757.0] , [None] , [791863.0] , [401800000.0] , [None] , [93670000.0] , [None] , [77000000.0] , [204400000.0] , [None] , [470100000.0] , [39053.0] , [157300000.0] , [None] , [None] , [None] , [None] , [None] , [None] , [16399999.999999998] , [29183.0] , [None] , [None] , [1916000000.0] , [97526.0] , [168700000.0] , [None] , [19200000.0] , [506900000.0] , [4200000.0] , [None] , [None] , [None] ,
```

## 3.2 Convert movie's running time into integer

As we can see running time is in form of string 'x minutes'

```
In [13]: for movie in movie_detail_list:
          print([movie.get('Running time', 'N/A')], end=',')

['114 minutes'], ['105 minutes'], ['95 minutes'], ['91 minutes'], ['109 minutes'], ['93 minutes'], ['111 minutes'], ['118 minutes'], ['92 minutes'], ['50 minutes'], ['119 minutes'], ['129 minutes'], ['124 minutes'], ['102 minutes'], ['118 minutes'], ['94 minutes'], ['94 minutes'], ['99 minutes'], ['104 minutes'], ['114 minutes'], ['110 minutes'], ['99 minutes'], ['113 minutes'], ['150 minutes'], ['88 minutes'], ['109 minutes'], ['88 minutes'], ['N/A'], ['138 minutes'], ['156 minutes'], ['108 minutes'], ['155 minutes'], ['115 minutes'], ['103 minutes'], ['124 minutes'], ['N/A'], ['113 minutes'], ['101 minutes'], ['148 minutes'], ['111 minutes'], ['111 minutes'], ['101 minutes'], ['115 minutes'], ['101 minutes'], ['74 minutes'], ['116 minutes'], ['103 minutes'], ['116 minutes'], ['136 minutes'], ['148 minutes'], ['91 minutes'], ['132 minutes'], ['104 minutes'], ['138 minutes'], ['97 minutes'], ['108 minutes'], ['85 minutes'], ['242 minutes'], ['99 minutes'],
```

```
In [14]: # running time should return as None or integer only
def minutes_to_int(runningTime):
    if runningTime == "N/A":
        return None

    if isinstance(runningTime, list):
        return int(runningTime[0].split(" ")[0])
    else:
        # this is when running time is a string
        return int(runningTime.split(" ")[0])

# add another column for running time as integer
for movie in movie_detail_list:
    movie['Running time (int)'] = minutes_to_int(movie.get('Running time', "N/A"))
```

after conversion :

```
In [15]: for movie in movie_detail_list:
          print([movie.get('Running time (int)', 'N/A')], end=' , ')

[114] , [105] , [95] , [91] , [109] , [93] , [111] , [118] , [92] , [50] , [119] , [129] , [124] , [102] , [118] , [94] , [94] , [99] , [104] , [114] , [110] , [99] , [113] , [150] , [88] , [109] , [88] , [None] , [138] , [156] , [108] , [155] , [115] , [103] , [124] , [None] , [113] , [101] , [148] , [111] , [111] , [101] , [115] , [101] , [74] , [116] , [103] , [116] , [136] , [148] , [91] , [132] , [104] , [138] , [97] , [108] , [85] , [242] , [99] ,
```

## 3.3 Import OMdb Api to add imdb rating and plot of movies

```
In [16]: movie_detail_list
```

```
Out[16]: [{ 'title': '2067',
  'Directed by': 'Seth Larney',
  'Written by': ['Seth Larney', 'Additional writing: Dave Paterson'],
  'Additional dialogue by': ['Gareth Davies'],
  'Based on': 'a treatment by Gavin Scott Davis',
  'Produced by': ['Lisa Shaunessy', 'Jason Taylor', 'Kate Croser'],
  'Starring': ['Kodi Smit-McPhee',
    'Ryan Kwanten',
    'Leeanna Walsman',
    'Aaron Glenane',
    'Deborah Mailman'],
  'Cinematography': 'Earle Dresner',
  'Edited by': 'Sean Lahiff',
  'Music by': ['Kenneth Lampl', 'Kirsten Axelholm'],
  'Production companies': ['Screen Australia',
    'XYZ Films',
    'Futurism Studios',
    'South Australian Film Corporation',
    'Adelaide Film Festival',
    'Create NSW',
    'Elevate Production Finance',
    'Grumpy Sailor',
    'Kojo Entertainment',
    'Freedom Films',
    'Arcadia'],
  'Distributed by': ['Umbrella Entertainment (Australia)', 'RLJE Films (US)'],
  'Release date': ['October 2, 2020 ( 2020-10-02 ) (United States)'],
  'Running time': '114 minutes',
  'Country': ['Australia'],
  'Language': 'English',
  'Budget (float)': None,
  'Box office (float)': None,
  'Running time (int)': 114},
{ 'title': 'Archive',
  'Directed by': 'Gavin Rothery',
  'Written by': 'Gavin Rothery',
  'Produced by': ['Cora Palfrey', 'Philip Herd', 'Theo James'],
  'Starring': ['Theo James',
    'Stacy Martin',
    'Rhona Mitra',
    'Peter Ferdinando',
    'Richard Glover',
    'Lia Williams',
    'Toby Jones'],
  'Cinematography': 'Laurie Rose',
  'Edited by': 'Adam Biskupski',
  'Music by': 'Steven Price',
  'Production companies': ['Independent Films',
    'Head Gear Films',
    'Untapped Films'],
  'Distributed by': 'Vertical Entertainment',
  'Release dates': ['10 July 2020 ( 2020-07-10 ) (United States)',
    '18 January 2021 ( 2021-01-18 ) (United Kingdom)'],
  'Running time': '105 minutes',
  'Country': 'United Kingdom',
  'Language': 'English',
  'Box office': '$242,195',
```



```

'Budget (float)': None,
'Box office (float)': 242195.0,
'Running time (int)': 105},
{'title': 'Artemis Fowl',
'Directed by': 'Kenneth Branagh',
'Screenplay by': ['Conor McPherson', 'Hamish McColl'],
'Based on': 'Artemis Fowl by Eoin Colfer',
'Produced by': ['Kenneth Branagh', 'Judy Hofflund'],
'Starring': ['Ferdia Shaw',
'Lara McDonnell',
'Josh Gad',
'Tamara Smart',
'Nonso Anozie',
'Colin Farrell',
'Judi Dench'],
'Cinematography': 'Haris Zambarloukos',
'Edited by': 'Matthew Tucker',
'Music by': 'Patrick Doyle',
'Production companies': ['Walt Disney Pictures', 'TKBC', 'Marzano Films'],
'Distributed by': 'Disney+',
'Release date': ['June 12, 2020 ( 2020-06-12 )'],
'Running time': '95 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$125 million',
'Budget (float)': 125000000.0,
'Box office (float)': None,
'Running time (int)': 95},
{'title': 'Bill & Ted Face the Music',
'Directed by': 'Dean Parisot',
'Screenplay by': ['Chris Matheson', 'Ed Solomon'],
'Based on': ['Chris Matheson', 'Ed Solomon'],
'Produced by': ['Scott Kroopf',
'Alex Lebovici',
'David Haring',
'Steve Ponce',
'Ed Solomon',
'Alex Winter'],
'Starring': ['Keanu Reeves',
'Alex Winter',
'Kristen Schaal',
'Samara Weaving',
'Brigitte Lundy-Paine',
'Anthony Carrigan',
'Erinn Hayes',
'Jayma Mays',
'Holland Taylor',
'Kid Cudi',
'William Sadler',
'Jillian Bell'],
'Cinematography': 'Shelly Johnson',
'Edited by': 'Don Zimmerman',
'Music by': 'Mark Isham',
'Production companies': ['Orion Pictures',
'Endeavor Content',
'Hammerstone Studios'],
'Distributed by': 'United Artists Releasing',
'Release date': ['August 28, 2020 ( 2020-08-28 )'],
'Running time': '91 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$25 million',
'Box office': '$6.3 million',
'Budget (float)': 25000000.0,
'Box office (float)': 6300000.0,
'Running time (int)': 91},

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{'title': 'Bloodshot',
 'Directed by': 'David S. F. Wilson',
 'Screenplay by': ['Jeff Wadlow', 'Eric Heisserer'],
 'Story by': 'Jeff Wadlow',
 'Based on': ['Kevin VanHook', 'Don Perlin', 'Bob Layton'],
 'Produced by': ['Neal H. Moritz',
 'Toby Jaffe',
 'Dinesh Shamdasani',
 'Vin Diesel'],
 'Starring': ['Vin Diesel',
 'Eiza González',
 'Sam Heughan',
 'Toby Kebbell',
 'Guy Pearce'],
 'Cinematography': 'Jacques Jouffret',
 'Edited by': 'Jim May',
 'Music by': 'Steve Jablonsky',
 'Production companies': ['Columbia Pictures',
 'Bona Film Group',
 'Cross Creek Pictures',
 'Original Film',
 'One Race Films',
 'Valiant Entertainment',
 'Annabell Pictures',
 'The Hideaway Entertainment'],
 'Distributed by': 'Sony Pictures Releasing',
 'Release dates': ['March 10, 2020 ( 2020-03-10 ) ( Westwood )',
 'March 13, 2020 ( 2020-03-13 ) (United States)'],
 'Running time': '109 minutes',
 'Country': 'United States',
 'Language': 'English',
 'Budget': '$45 million',
 'Box office': '$37.3 million',
 'Budget (float)': 45000000.0,
 'Box office (float)': 37300000.0,
 'Running time (int)': 109},
{'title': 'Breach',
 'Directed by': 'John Suits',
 'Written by': ['Edward Drake', 'Corey Large'],
 'Produced by': ['Corey Large',
 'Danny Roth',
 'Mike Donovan',
 'Ryan Charles Griffin'],
 'Starring': ['Cody Kearsley', 'Bruce Willis', 'Thomas Jane'],
 'Cinematography': 'Will Stone',
 'Music by': 'Scott Glasgow',
 'Production companies': ['308 Entertainment',
 'Almost Never Films Inc.',
 'Aloe Entertainment',
 'Screen Media Films'],
 'Distributed by': 'Saban Films',
 'Release date': ['December 18, 2020 ( 2020-12-18 )'],
 'Running time': '93 minutes',
 'Country': 'United States',
 'Language': 'English',
 'Box office': '$39,328',
 'Budget (float)': None,
 'Box office (float)': 39328.0,
 'Running time (int)': 93},
{'title': 'Color Out of Space',
 'Directed by': 'Richard Stanley',
 'Written by': ['Richard Stanley', 'Scarlett Amaris'],
 'Based on': '" The Colour Out of Space " by H. P. Lovecraft',
 'Produced by': ['Daniel Noah',
 'Josh C. Waller',
 'Elijah Wood',

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'Lisa Whalen'],  
 'Starring': ['Nicolas Cage',  
 'Joely Richardson',  
 'Elliot Knight',  
 'Madeleine Arthur',  
 "Q'orianka Kilcher",  
 'Tommy Chong'],  
 'Cinematography': 'Steve Annis',  
 'Edited by': 'Brett W. Bachman',  
 'Music by': 'Colin Stetson',  
 'Production company': 'SpectreVision',  
 'Distributed by': 'RLJE Films',  
 'Release dates': ['September 7, 2019 ( 2019-09-07 ) ( TIFF )',  
 'January 24, 2020 ( 2020-01-24 ) (United States)'],  
 'Running time': '111 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$6-12 million',  
 'Box office': '\$1 million',  
 'Budget (float)': 6000000.0,  
 'Box office (float)': 1000000.0,  
 'Running time (int)': 111},  
 {'title': 'Cosmoball',  
 'Directed by': 'Dzhanik Fayziev',  
 'Screenplay by': ['Andrey Rubanov ( ru )',  
 'Dzhanik Fayziev',  
 'Drew Row',  
 'Twister Murchison'],  
 'Based on': 'Galactik Football by Frederic Dybowski Antoine Charreyron',  
 'Produced by': ['Sergey Selyanov ( ru )',  
 'Dzhanik Fayziev',  
 'Innokentiy Malinkin'],  
 'Starring': ['Yevgeny Romantsov',  
 'Viktoriya Agalakova',  
 'Maria Lisovaya',  
 'Ivan Ivanovich',  
 'Liza Taychenacheva',  
 'Yevgeny Mironov',  
 'Elena Yakovleva',  
 'Mikhail Yefremov',  
 'Dmitry Nazarov',  
 'Svetlana Ivanova'],  
 'Cinematography': 'Maksim Osadchy',  
 'Edited by': 'Rod Nikolaychuk',  
 'Music by': 'Tony Neiman',  
 'Production companies': ['Bonanza Studio',  
 'CTB Film Company',  
 'KIT Film Studio',  
 'Main Road Post',  
 'Russia-1',  
 'Channel One',  
 'STS',  
 'Cinema Fund',  
 'AvtoRadio'],  
 'Distributed by': 'Nashe Kino (Our Cinema)',  
 'Release date': ['August 27, 2020 ( 2020-08-27 ) ( Russia )'],  
 'Running time': '118 minutes',  
 'Country': 'Russia',  
 'Languages': ['Russian', 'English'],  
 'Budget': ['₽ 786 million', '\$15-22 million'],  
 'Box office': ['₽106.6 million',  
 '\$1.4 million (Worldwide)',  
 '\$1.4 million (Russia/ CIS )'],  
 'Budget (float)': None,  
 'Box office (float)': None,  
 'Running time (int)': 118},

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{ 'title': 'Freaks: You're One of Us',
  'German': 'Freaks - Du bist eine von uns',
  'Directed by': 'Felix Binder',
  'Written by': 'Marc O. Seng',
  'Starring': ['Finnlay Berger', 'Thelma Buabeng', 'Gisa Flake'],
  'Distributed by': 'Netflix',
  'Release date': ['2 September 2020 ( 2020-09-02 )'],
  'Running time': '92 minutes',
  'Country': 'Germany',
  'Language': 'German',
  'Budget (float)': None,
  'Box office (float)': None,
  'Running time (int)': 92},
{ 'title': 'Friend of the World',
  'Directed by': 'Brian Patrick Butler',
  'Screenplay by': 'Brian Patrick Butler',
  'Produced by': ['Kerry Rossall',
    'Brian Patrick Butler',
    'Luke Anthony Pensabene'],
  'Starring': ['Nick Young', 'Alexandra Slade'],
  'Cinematography': 'Ray Gallardo',
  'Edited by': 'Brian Patrick Butler',
  'Music by': 'Stefan Krut',
  'Production companies': ['Charybdis Pictures', 'Gray Area Multimedia'],
  'Distributed by': 'Troma Entertainment',
  'Release dates': ['August 15, 2020 ( 2020-08-15 ) ( Oceanside International Film Festival )',
    'November 22, 2021 ( 2021-11-22 ) ( VOD )'],
  'Running time': '50 minutes',
  'Country': 'United States',
  'Language': 'English',
  'Budget (float)': None,
  'Box office (float)': None,
  'Running time (int)': 50},
{ 'title': 'Intersect',
  'Directed by': 'Gus Holwerda',
  'Screenplay by': 'Gus Holwerda',
  'Produced by': 'Gus Holwerda, Luke Holwerda, Jason Spisak',
  'Cinematography': 'Luke Holwerda',
  'Music by': 'Peter McConnell',
  'Production companies': 'Black Chalk, Shirley Films',
  'Distributed by': '1091 Pictures , Tubi TV',
  'Release date': ['12 February 2020 ( 2020-02-12 ) (Boston SciFi Film Festival)'],
  'Running time': '119 minutes',
  'Country': 'United States',
  'Language': 'English',
  'Budget': '$1,500,000',
  'Budget (float)': 1500000.0,
  'Box office (float)': None,
  'Running time (int)': 119},
{ 'title': 'Invasion',
  'Directed by': 'Fyodor Bondarchuk',
  'Screenplay by': ['Oleg Malovichko', 'Andrey Zolotarev'],
  'Produced by': ['Fyodor Bondarchuk',
    'Dmitriy Rudovskiy',
    'Mikhail Vrubel',
    'Aleksandr Andryushchenko',
    'Anton Zlatopolskiy ( ru )',
    'Elena Nelidova',
    'Mikhail Kitaev'],
  'Starring': ['Irina Starshenbaum',
    'Rinal Mukhametov',
    'Alexander Petrov',
    'Yuri Borisov',
    'Oleg Menshikov',
    'Sergei Garmash'],

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'Cinematography': 'Vladislav Opelyants',  
 'Edited by': ['Aleksandr Andryushchenko', 'Aleksandr Puzyryov'],  
 'Music by': 'Igor Vdovin',  
 'Production companies': ['Columbia Pictures',  
 'Art Pictures Studio',  
 'Vodorod',  
 'Cinema Foundation',  
 'Russia-1',  
 'National Media Group Studio'],  
 'Distributed by': 'WDSSPR',  
 'Release date': ['January 1, 2020 ( 2020-01-01 )'],  
 'Running time': '129 minutes',  
 'Country': 'Russia',  
 'Languages': 'Russian, English',  
 'Budget': '\$14.8 million ( ₰ 944 million)',  
 'Box office': '\$15.8 million ( ₰ 960 million)',  
 'Budget (float)': 14800000.0,  
 'Box office (float)': 15800000.0,  
 'Running time (int)': 129},  
 {'title': 'The Invisible Man',  
 'Directed by': 'Leigh Whannell',  
 'Written by': 'Leigh Whannell',  
 'Based on': 'The Invisible Man suggested by 1897 novel by H. G. Wells',  
 'Produced by': ['Jason Blum', 'Kylie du Fresne'],  
 'Starring': ['Elisabeth Moss',  
 'Aldis Hodge',  
 'Storm Reid',  
 'Harriet Dyer',  
 'Michael Dorman',  
 'Oliver Jackson-Cohen'],  
 'Cinematography': 'Stefan Duscio',  
 'Edited by': 'Andy Canny',  
 'Music by': 'Benjamin Wallfisch',  
 'Production companies': ['Blumhouse Productions',  
 'Goalpost Pictures',  
 'Nervous Tick Productions'],  
 'Distributed by': 'Universal Pictures',  
 'Release dates': ['February 27, 2020 ( 2020-02-27 ) (Australia)',  
 'February 28, 2020 ( 2020-02-28 ) (United States)'],  
 'Running time': '124 minutes',  
 'Countries': 'Australia United States',  
 'Language': 'English',  
 'Budget': '\$7 million',  
 'Box office': '\$144.5 million',  
 'Budget (float)': 7000000.0,  
 'Box office (float)': 144500000.0,  
 'Running time (int)': 124},  
 {'title': 'Jiu Jitsu',  
 'Directed by': 'Dimitri Logothetis',  
 'Screenplay by': ['Dimitri Logothetis', 'James McGrath'],  
 'Based on': ['Dimitri Logothetis', 'Jim McGrath'],  
 'Produced by': ['Dimitri Logothetis', 'Martin Barab', 'Chris Economides'],  
 'Starring': ['Alain Moussi',  
 'Frank Grillo',  
 'JuJu Chan',  
 'Tony Jaa',  
 'Nicolas Cage'],  
 'Cinematography': 'Gerardo Madrazo',  
 'Edited by': 'Danny McDonald',  
 'Music by': 'Mocean Worker',  
 'Production companies': ['Highland Film Group',  
 'Coprod Media International Limited',  
 'Double Tree Entertainment',  
 'Acme Rocket Fuel'],  
 'Distributed by': 'The Avenue Entertainment',  
 'Release date': ['November 20, 2020 ( 2020-11-20 )'],

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'Running time': '102 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$25 million',
'Box office': '$99,924',
'Budget (float)': 25000000.0,
'Box office (float)': 99924.0,
'Running time (int)': 102},
{'title': 'The Midnight Sky',
'Directed by': 'George Clooney',
'Screenplay by': 'Mark L. Smith',
'Based on': 'Good Morning, Midnight by Lily Brooks-Dalton',
'Produced by': ['Grant Heslov',
'George Clooney',
'Keith Redmon',
'Bard Dorros',
'Cliff Roberts'],
'Starring': ['George Clooney',
'Felicity Jones',
'David Oyelowo',
'Tiffany Boone',
'Demián Bichir',
'Kyle Chandler',
'Caoilinn Springall'],
'Cinematography': 'Martin Ruhe',
'Edited by': 'Stephen Mirrione',
'Music by': 'Alexandre Desplat',
'Production companies': ['Smokehouse Pictures', 'Anonymous Content'],
'Distributed by': 'Netflix',
'Release date': ['December 11, 2020 ( 2020-12-11 )'],
'Running time': '118 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$100 million',
'Box office': '$3 million',
'Budget (float)': 100000000.0,
'Box office (float)': 3000000.0,
'Running time (int)': 118},
{'title': 'Minor Premise',
'Directed by': 'Eric Schultz',
'Written by': ['Justin Moretto', 'Eric Schultz', 'Thomas Torrey'],
'Produced by': ['Justin Moretto',
"Ross O'Connor",
'Eric Schultz',
'Nicolai Schwarzkopf',
'Thomas Torrey'],
'Starring': ['Sathya Sridharan', 'Paton Ashbrook', 'Dana Ashbrook'],
'Cinematography': 'Justin Derry',
'Edited by': ['James Codoyannis', 'Christopher Radcliffe'],
'Music by': 'Gavin Brivik',
'Production company': 'Bad Theology',
'Distributed by': 'Utopia',
'Release date': ['August 29, 2020 ( 2020-08-29 ) ( Fantasia Festival )'],
'Running time': '94 minutes',
'Country': 'United States',
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': 94},
{'title': 'The New Mutants',
'Directed by': 'Josh Boone',
'Written by': ['Josh Boone', 'K Nate Lee'],
'Based on': ['Chris Claremont', 'Bob McLeod'],
'Produced by': ['Karen Rosenfelt', 'Lauren Shuler Donner', 'Simon Kinberg'],
'Starring': ['Blu Hunt',
'Maisie Williams',

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'Anya Taylor-Joy',  
 'Charlie Heaton',  
 'Alice Braga'],  
 'Cinematography': 'Peter Deming',  
 'Edited by': ['Robb Sullivan', 'Matthew Rundell', 'Andrew Buckland'],  
 'Music by': 'Mark Snow',  
 'Production companies': ['20th Century Studios',  
 'Marvel Entertainment',  
 'Kinberg Genre',  
 'Sunswept Entertainment',  
 'TSG Entertainment'],  
 'Distributed by': '20th Century Studios',  
 'Release date': ['August 28, 2020 ( 2020-08-28 ) (United States)'],  
 'Running time': '94 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$67-80 million',  
 'Box office': '\$49.2 million',  
 'Budget (float)': 67000000.0,  
 'Box office (float)': 49200000.0,  
 'Running time (int)': 94},  
 {'title': 'PG: Psycho Goreman',  
 'Directed by': 'Steven Kostanski',  
 'Written by': 'Steven Kostanski',  
 'Produced by': ['Stuart F. Andrews', 'Shannon Hanmer', 'Steven Kostanski'],  
 'Starring': ['Nita-Josee Hanna',  
 'Owen Myre',  
 'Adam Brooks',  
 'Alexis Hancey',  
 'Matthew Ninaber',  
 'Kristen MacCulloch',  
 'Steven Vlahos',  
 'Reece Presley'],  
 'Cinematography': 'Andrew Appelle',  
 'Edited by': ['Andrew Appelle', 'Steven Kostanski'],  
 'Music by': 'Blitz//Berlin',  
 'Production company': 'Raven Banner Entertainment',  
 'Distributed by': 'RLJE Films',  
 'Release date': ['October 7, 2020 ( 2020-10-07 ) (Beyond Fest)'],  
 'Running time': '99 minutes',  
 'Country': 'Canada',  
 'Language': 'English',  
 'Box office': '\$95,384',  
 'Budget (float)': None,  
 'Box office (float)': 95384.0,  
 'Running time (int)': 99},  
 {'title': 'Possessor',  
 'Directed by': 'Brandon Cronenberg',  
 'Written by': 'Brandon Cronenberg',  
 'Produced by': ['Fraser Ash',  
 'Niv Fichman',  
 'Kevin Krikst',  
 'Andrew Starke'],  
 'Starring': ['Andrea Riseborough',  
 'Christopher Abbott',  
 'Rossif Sutherland',  
 'Tuppence Middleton',  
 'Sean Bean',  
 'Jennifer Jason Leigh'],  
 'Cinematography': 'Karim Hussain',  
 'Edited by': 'Matthew Hannam',  
 'Music by': 'Jim Williams',  
 'Production companies': ['Ingenious Media',  
 'Telefilm Canada',  
 'Arclight Films',  
 'Ontario Creates',

'Particular Crowd',  
 'Crave',  
 'Rhombus Media',  
 'Rook Films'],  
 'Distributed by': ['Elevation Pictures (Canada)',  
 'Signature Entertainment (United Kingdom)'],  
 'Release dates': ['January 25, 2020 ( 2020-01-25 ) ( Sundance )',  
 'October 2, 2020 ( 2020-10-02 ) (United States and Canada)',  
 'November 27, 2020 ( 2020-11-27 ) (United Kingdom)'],  
 'Running time': '104 minutes',  
 'Countries': ['Canada', 'United Kingdom'],  
 'Language': 'English',  
 'Box office': '\$901,093',  
 'Budget (float)': None,  
 'Box office (float)': 901093.0,  
 'Running time (int)': 104},  
 {'title': 'Project Power',  
 'Directed by': ['Henry Joost', 'Ariel Schulman'],  
 'Written by': 'Mattson Tomlin',  
 'Produced by': ['Eric Newman', 'Bryan Unkeless'],  
 'Starring': ['Jamie Foxx',  
 'Joseph Gordon-Levitt',  
 'Dominique Fishback',  
 'Rodrigo Santoro',  
 'Colson Baker',  
 'Allen Maldonado',  
 'Amy Landecker',  
 'Courtney B. Vance'],  
 'Cinematography': 'Michael Simmonds',  
 'Edited by': 'Jeff McEvoy',  
 'Music by': 'Joseph Trapanese',  
 'Production companies': ['Screen Arcade', 'Supermarche'],  
 'Distributed by': 'Netflix',  
 'Release date': ['August 14, 2020 ( 2020-08-14 )'],  
 'Running time': '114 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$85.1 million',  
 'Budget (float)': 85100000.0,  
 'Box office (float)': None,  
 'Running time (int)': 114},  
 {'title': 'Skylines',  
 'Directed by': "Liam O'Donnell",  
 'Screenplay by': "Liam O'Donnell",  
 'Story by': ['Matthew E. Chausse', "Liam O'Donnell"],  
 'Based on': ['Joshua Cordes', "Liam O'Donnell"],  
 'Produced by': ["Liam O'Donnell",  
 'Greg Strause',  
 'Colin Strause',  
 'Matthew E. Chausse'],  
 'Starring': ['Lindsey Morgan',  
 'Jonathan Howard',  
 'Daniel Bernhardt',  
 'Rhona Mitra',  
 'James Cosmo',  
 'Alexander Siddig'],  
 'Cinematography': 'Alain Duplantier',  
 'Edited by': 'Barrett Heathcote',  
 'Music by': 'Ram Khatabakhsh',  
 'Production companies': ['Hydraulx Entertainment',  
 "Liam O'Donnell Films",  
 'XYZ Films',  
 'm45 Productions',  
 'Gifflar Films Limited',  
 'Gifflar (Patriot) Films Limited',  
 'UAB Cobaltas',



'Ingenious Media',  
'Lipsync Productions LLP',  
'Artbox',  
'Fasten Films'],  
'Distributed by': 'Vertical Entertainment',  
'Release dates': ['October 25, 2020 ( 2020-10-25 ) ( FrightFest )',  
'December 18, 2020 ( 2020-12-18 ) (United States)'],  
'Running time': '110 minutes',  
'Country': 'United States',  
'Language': 'English',  
'Budget': '\$26 million',  
'Box office': '\$170,581',  
'Budget (float)': 26000000.0,  
'Box office (float)': 170581.0,  
'Running time (int)': 110},  
{ 'title': 'Sonic the Hedgehog',  
'Directed by': 'Jeff Fowler',  
'Written by': ['Pat Casey', 'Josh Miller'],  
'Based on': 'Sonic the Hedgehog by Sega',  
'Produced by': ['Neal H. Moritz',  
'Toby Ascher',  
'Toru Nakahara',  
'Takeshi Ito'],  
'Starring': ['James Marsden', 'Jim Carrey'],  
'Cinematography': 'Stephen F. Windon',  
'Edited by': ['Stacey Schroeder', 'Debra Neil-Fisher'],  
'Music by': 'Tom Holkenborg',  
'Production companies': ['Sega Sammy Group',  
'Original Film',  
'Marza Animation Planet',  
'Blur Studio'],  
'Distributed by': 'Paramount Pictures',  
'Release dates': ['January 25, 2020 ( 2020-01-25 ) (Paramount Theatre)',  
'February 14, 2020 ( 2020-02-14 ) (United States)',  
'June 26, 2020 ( 2020-06-26 ) (Japan)'],  
'Running time': '99 minutes',  
'Countries': ['United States', 'Japan'],  
'Language': 'English',  
'Budget': '\$85-90 million',  
'Box office': '\$320 million',  
'Budget (float)': 85000000.0,  
'Box office (float)': 320000000.0,  
'Running time (int)': 99},  
{ 'title': 'Sputnik',  
'Directed by': 'Egor Abramenko',  
'Written by': ['Oleg Malovichko', 'Andrei Zolotarev'],  
'Produced by': ['Mikhail Vrubel',  
'Aleksandr Andryushchenko',  
'Fyodor Bondarchuk',  
'Ilya Stewart',  
'Murad Osmann',  
'Pavel Burya',  
'Vyacheslav Murugov',  
'Alina Tyazhlova',  
'Michael Kitaev',  
'Ilya Jincharadze'],  
'Starring': ['Oksana Akinshina',  
'Fyodor Bondarchuk',  
'Pyotr Fyodorov',  
'Anton Vasiliev'],  
'Cinematography': 'Maxim Zhukov',  
'Edited by': 'Aleksandr Puzyryov Egor Tarasenko',  
'Music by': 'Oleg Karpachev',  
'Production companies': ['Vodorod Pictures',  
'Art Pictures Studio',  
'Hype Film',

'National Media Group Studio',  
 'STS'],  
 'Distributed by': 'Sony Pictures',  
 'Release date': ['April 23, 2020 ( 2020-04-23 ) (Russia)'],  
 'Running time': '113 minutes',  
 'Country': 'Russia',  
 'Language': 'Russian',  
 'Budget': '₽ 190 million (~US\$2.6 million)',  
 'Box office': '\$354,023',  
 'Budget (float)': 2600000.0,  
 'Box office (float)': 354023.0,  
 'Running time (int)': 113},  
 {'title': 'Tenet',  
 'Directed by': 'Christopher Nolan',  
 'Written by': 'Christopher Nolan',  
 'Produced by': ['Emma Thomas', 'Christopher Nolan'],  
 'Starring': ['John David Washington',  
 'Robert Pattinson',  
 'Elizabeth Debicki',  
 'Dimple Kapadia',  
 'Michael Caine',  
 'Kenneth Branagh'],  
 'Cinematography': 'Hoyte van Hoytema',  
 'Edited by': 'Jennifer Lame',  
 'Music by': 'Ludwig Göransson',  
 'Production company': 'Syncopy',  
 'Distributed by': 'Warner Bros. Pictures',  
 'Release dates': ['August 26, 2020 ( 2020-08-26 ) (United Kingdom)',  
 'September 3, 2020 ( 2020-09-03 ) (United States)'],  
 'Running time': '150 minutes',  
 'Countries': ['United Kingdom', 'United States'],  
 'Language': 'English',  
 'Budget': '\$200\xa0million',  
 'Box office': '\$365.3\xa0million',  
 'Budget (float)': 200000000.0,  
 'Box office (float)': 365300000.0,  
 'Running time (int)': 150},  
 {'title': 'Tiong Bahru Social Club',  
 'Directed by': 'Tan Bee Thiam',  
 'Written by': 'Antti Toivonen, Tan Bee Thiam',  
 'Starring': ['Thomas Pang', 'Guat Kian Goh', 'Jalyn Han'],  
 'Production companies': 'Tiger Tiger Pictures Bert Pictures 13 Little Pictures',  
 'Distributed by': 'Golden Village Pictures',  
 'Release dates': ['26 November 2020 ( 2020-11-26 ) (Singapore Film Festival)',  
 '10 December 2020 ( 2020-12-10 )'],  
 'Running time': '88 minutes',  
 'Country': 'Singapore',  
 'Languages': 'English (Some Mandarin, Hokkien, Cantonese, Malay, Tamil)',  
 'Box office': 'S\$108,774',  
 'Budget (float)': None,  
 'Box office (float)': 108774.0,  
 'Running time (int)': 88},  
 {'title': 'Chaos Walking',  
 'Directed by': 'Doug Liman',  
 'Screenplay by': ['Patrick Ness', 'Christopher Ford'],  
 'Based on': 'The Knife of Never Letting Go by Patrick Ness',  
 'Produced by': ['Doug Davison',  
 'Allison Shearmur',  
 'Erwin Stoff',  
 'Alison Winter'],  
 'Starring': ['Tom Holland',  
 'Daisy Ridley',  
 'Mads Mikkelsen',  
 'Demián Bichir',  
 'Cynthia Erivo',  
 'Nick Jonas',

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'David Oyelowo'],
'Cinematography': 'Ben Seresin',
'Edited by': 'Doc Crotzer',
'Music by': ['Marco Beltrami', 'Brandon Roberts'],
'Production companies': ['TIK Films',
'Quadrant Pictures',
'Allison Shearmur Productions',
'3 Arts Entertainment',
'Hercules Film Fund- Bron Creative'],
'Distributed by': 'Lionsgate',
'Release dates': ['February 24, 2021 ( 2021-02-24 ) (South Korea)',
'March 5, 2021 ( 2021-03-05 ) (United States)'],
'Running time': '109 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$100-125 million',
'Box office': '$27.1 million',
'Budget (float)': 100000000.0,
'Box office (float)': 27100000.0,
'Running time (int)': 109},
{'title': 'Cosmic Sin',
'Directed by': 'Edward Drake',
'Written by': ['Edward Drake', 'Corey Large'],
'Produced by': 'Corey Large',
'Starring': ['Bruce Willis',
'Frank Grillo',
'Brandon Thomas Lee',
'Corey Large',
'Perrey Reeves',
'C.J. Perry',
'Lochlyn Munro',
'Costas Mandylor'],
'Cinematography': 'Brandon Cox',
'Edited by': 'Justin Williams',
'Music by': 'Scott Glasgow',
'Production companies': ['308 Entertainment', 'BondIt Media Capital'],
'Distributed by': 'Saban Films',
'Release date': ['March 12, 2021 ( 2021-03-12 ) (United States)'],
'Running time': '88 minutes',
'Country': 'United States',
'Language': 'English',
'Box office': '$349,757',
'Budget (float)': None,
'Box office (float)': 349757.0,
'Running time (int)': 88},
{'title': 'Cube',
'Directed by': 'Yasuhiko Shimizu',
'Screenplay by': 'Koji Tokuo',
'Produced by': 'Akiko Funatso Satoko Ishida',
'Starring': ['Masaki Suda',
'Anne Watanabe',
'Masaki Okada',
'Hikaru Tashiro',
'Takumi Saito',
'Kōtarō Yoshida'],
'Cinematography': 'Tomoyuki Kawakami Toyomichi Kurita',
'Edited by': 'Tsuyoshi Imai',
'Music by': 'Yutaka Yamada',
'Distributed by': 'Shochiku',
'Release date': ['October 22, 2021 ( 2021-10-22 )'],
'Country': 'Japan',
'Language': 'Japanese',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': None},
{'title': "Don't Look Up",

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'Directed by': 'Adam McKay',  
'Screenplay by': 'Adam McKay',  
'Story by': ['Adam McKay', 'David Sirota'],  
'Produced by': ['Adam McKay', 'Kevin Messick'],  
'Starring': ['Leonardo DiCaprio',  
'Jennifer Lawrence',  
'Rob Morgan',  
'Jonah Hill',  
'Mark Rylance',  
'Tyler Perry',  
'Timothée Chalamet',  
'Ron Perlman',  
'Ariana Grande',  
'Kid Cudi',  
'Cate Blanchett',  
'Meryl Streep'],  
'Cinematography': 'Linus Sandgren',  
'Edited by': 'Hank Corwin',  
'Music by': 'Nicholas Britell',  
'Production companies': ['Hyperobject Industries', 'Bluegrass Films'],  
'Distributed by': 'Netflix',  
'Release dates': ['December 5, 2021 ( 2021-12-05 ) (New York City)',  
'December 10, 2021 ( 2021-12-10 ) (United States)',  
'December 24, 2021 ( 2021-12-24 ) (Netflix)'],  
'Running time': '138 minutes',  
'Country': 'United States',  
'Language': 'English',  
'Budget': '\$75 million',  
'Box office': '\$791,863',  
'Budget (float)': 75000000.0,  
'Box office (float)': 791863.0,  
'Running time (int)': 138},  
{ 'title': 'Dune',  
'Directed by': 'Denis Villeneuve',  
'Screenplay by': ['Jon Spaihts', 'Denis Villeneuve', 'Eric Roth'],  
'Based on': 'Dune by Frank Herbert',  
'Produced by': ['Mary Parent',  
'Denis Villeneuve',  
'Cale Boyter',  
'Joe Caracciolo Jr.'],  
'Starring': ['Timothée Chalamet',  
'Rebecca Ferguson',  
'Oscar Isaac',  
'Josh Brolin',  
'Stellan Skarsgård',  
'Dave Bautista',  
'Stephen McKinley Henderson',  
'Zendaya',  
'David Dastmalchian',  
'Chang Chen',  
'Sharon Duncan-Brewster',  
'Charlotte Rampling',  
'Jason Momoa',  
'Javier Bardem'],  
'Cinematography': 'Greig Fraser',  
'Edited by': 'Joe Walker',  
'Music by': 'Hans Zimmer',  
'Production company': 'Legendary Pictures',  
'Distributed by': 'Warner Bros. Pictures',  
'Release dates': ['September 3, 2021 ( 2021-09-03 ) ( Venice )',  
'October 22, 2021 ( 2021-10-22 ) (United States)'],  
'Running time': '156 minutes',  
'Country': 'United States',  
'Language': 'English',  
'Budget': '\$165 million',  
'Box office': '\$401.8 million',

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'Budget (float)': 165000000.0,
'Box office (float)': 401800000.0,
'Running time (int)': 156},
{'title': 'Encounter',
'Directed by': 'Michael Pearce',
'Written by': ['Michael Pearce', 'Joe Barton'],
'Produced by': ['Dimitri Doganis', 'Piers Vellacott', 'Derrin Schlesinger'],
'Starring': ['Riz Ahmed',
'Octavia Spencer',
'Janina Gavankar',
'Rory Cochrane',
'Lucian-River Chauhan',
'Aditya Geddada'],
'Cinematography': 'Benjamin Kracun',
'Edited by': 'Maya Maffioli',
'Music by': 'Jed Kurzel',
'Production companies': ['Amazon Studios', 'Film4 Productions', 'Raw'],
'Distributed by': 'Amazon Studios',
'Release dates': ['September 3, 2021 ( 2021-09-03 ) ( Telluride )',
'December 3, 2021 ( 2021-12-03 ) (United States)'],
'Running time': '108 minutes',
'Countries': ['United Kingdom', 'United States'],
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': 108},
{'title': 'Evangelion: 3.0+1.0 Thrice Upon a Time',
'Japanese': 'シン・エヴァンゲリオン劇場版Ⅲ',
'Hepburn': 'Shin Evangerion Gekijōban Ⅲ',
'Literally': 'New Evangelion Theatrical Edition Ⅲ',
'Directed by': ['Hideaki Anno Kazuya Tsurumaki Katsuichi Nakayama Mahiro Maeda'],
'Screenplay by': 'Hideaki Anno',
'Based on': 'Neon Genesis Evangelion by Hideaki Anno',
'Produced by': ['Hideaki Anno Tomoyuki Ogata'],
'Starring': 'Megumi Ogata Megumi Hayashibara Yuko Miyamura Maaya Sakamoto Akira Ishida
Kotono Mitsuishi',
'Cinematography': 'Toru Fukushi',
'Edited by': 'Emi Tsujita',
'Music by': 'Shirō Sagisu',
'Production company': 'Studio Khara',
'Distributed by': ['Toho Company', 'Toei Company'],
'Release date': ['March 8, 2021 ( 2021-03-08 )'],
'Running time': '155 minutes',
'Country': 'Japan',
'Language': 'Japanese',
'Box office': '¥10.28 billion ( $93.67 million )',
'Budget (float)': None,
'Box office (float)': 93670000.0,
'Running time (int)': 155},
{'title': 'Finch',
'Directed by': 'Miguel Sapochnik',
'Written by': ['Craig Luck', 'Ivor Powell'],
'Produced by': ['Jacqueline Levine',
'Kevin Misher',
'Ivor Powell',
'Jack Rapke'],
'Starring': ['Tom Hanks', 'Caleb Landry Jones'],
'Cinematography': 'Jo Willems',
'Edited by': 'Tim Porter',
'Music by': 'Gustavo Santaolalla',
'Production companies': ['Amblin Entertainment',
'Apple Original Films',
'ImageMovers',
'Misher Films',
'Reliance Entertainment',
'Walden Media'],

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'Distributed by': 'Apple Studios',  
 'Release date': ['November 5, 2021 ( 2021-11-05 )'],  
 'Running time': '115 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget (float)': None,  
 'Box office (float)': None,  
 'Running time (int)': 115},  
 {'title': 'The Forever Purge',  
 'Directed by': 'Everardo Valerio Gout',  
 'Written by': 'James DeMonaco',  
 'Based on': 'Characters by James DeMonaco',  
 'Produced by': ['Jason Blum',  
 'Michael Bay',  
 'Andrew Form',  
 'Brad Fuller',  
 'Sébastien K. Lemercier',  
 'James DeMonaco'],  
 'Starring': ['Ana de la Reguera',  
 'Tenoch Huerta',  
 'Josh Lucas',  
 'Cassidy Freeman',  
 'Leven Rambin',  
 'Will Patton'],  
 'Cinematography': 'Luis Sansans',  
 'Edited by': ['Todd E. Miller', 'Vincent Tabailon', 'Tim Alverson'],  
 'Music by': 'The Newton Brothers',  
 'Production companies': ['Perfect World Pictures',  
 'Platinum Dunes',  
 'Blumhouse Productions',  
 'Man in a Tree Productions'],  
 'Distributed by': 'Universal Pictures',  
 'Release date': ['July 2, 2021 ( 2021-07-02 )'],  
 'Running time': '103 minutes',  
 'Country': 'United States',  
 'Languages': ['English', 'Spanish'],  
 'Budget': '\$18 million',  
 'Box office': '\$77 million',  
 'Budget (float)': 18000000.0,  
 'Box office (float)': 77000000.0,  
 'Running time (int)': 103},  
 {'title': 'Ghostbusters: Afterlife',  
 'Directed by': 'Jason Reitman',  
 'Written by': ['Gil Kenan', 'Jason Reitman'],  
 'Based on': 'Ghostbusters by Dan Aykroyd Harold Ramis',  
 'Produced by': 'Ivan Reitman',  
 'Starring': ['Carrie Coon',  
 'Finn Wolfhard',  
 'Mckenna Grace',  
 'Annie Potts',  
 'Ernie Hudson',  
 'Paul Rudd'],  
 'Cinematography': 'Eric Steelberg',  
 'Edited by': ['Dana E. Glauberman', 'Nathan Orloff'],  
 'Music by': 'Rob Simonsen',  
 'Production companies': ['Columbia Pictures',  
 'Bron Creative',  
 'Ghost Corps',  
 'The Montecito Picture Company',  
 'Right of Way Films'],  
 'Distributed by': 'Sony Pictures Releasing',  
 'Release dates': ['August 23, 2021 ( 2021-08-23 ) ( CinemaCon )',  
 'November 19, 2021 ( 2021-11-19 ) ( United States )'],  
 'Running time': '124 minutes',  
 'Country': 'United States',  
 'Language': 'English',

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'Budget': '$75 million',
'Box office': '$204.4 million',
'Budget (float)': 75000000.0,
'Box office (float)': 204400000.0,
'Running time (int)': 124},
{'title': 'Glasshouse',
'Directed by': 'Kelsey Egan',
'Written by': ['Emma Lungiswa de Wet', 'Kelsey Egan'],
'Produced by': 'Greig Buckle',
'Starring': ['Jessica Alexander', 'Anja Taljaard', 'Hilton Pelsner'],
'Cinematography': 'Justus de Jager',
'Edited by': 'Rowan Jackson',
'Music by': 'Patrick Cannell',
'Production companies': ['Local Motion Pictures',
'Crave Pictures',
'Rigel Films'],
'Distributed by': ['MultiChoice Studios', 'Showmax'],
'Release date': ['16 August 2021 ( 2021-08-16 )'],
'Country': 'South Africa',
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': None},
{'title': 'Godzilla vs. Kong',
'Directed by': 'Adam Wingard',
'Screenplay by': ['Eric Pearson', 'Max Borenstein'],
'Story by': ['Terry Rossio', 'Michael Dougherty', 'Zach Shields'],
'Based on': ['Godzilla and Mechagodzilla by Toho Co., Ltd',
'King Kong by Edgar Wallace Merian C. Cooper',
'Edgar Wallace',
'Merian C. Cooper'],
'Produced by': ['Thomas Tull',
'Jon Jashni',
'Brian Rogers',
'Mary Parent',
'Alex Garcia',
'Eric McLeod'],
'Starring': ['Alexander Skarsgård',
'Millie Bobby Brown',
'Rebecca Hall',
'Brian Tyree Henry',
'Shun Oguri',
'Eiza González',
'Julian Dennison',
'Lance Reddick',
'Kyle Chandler',
'Demián Bichir'],
'Cinematography': 'Ben Seresin',
'Edited by': 'Josh Schaeffer',
'Music by': 'Tom Holkenborg',
'Production company': 'Legendary Pictures',
'Distributed by': ['Warner Bros. Pictures (Worldwide)', 'Toho (Japan)'],
'Release dates': ['March 24, 2021 ( 2021-03-24 ) (International)',
'March 31, 2021 ( 2021-03-31 ) (United States)'],
'Running time': '113 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$155-200 million',
'Box office': '$470.1 million',
'Budget (float)': 155000000.0,
'Box office (float)': 470100000.0,
'Running time (int)': 113},
{'title': 'Little Fish',
'Directed by': 'Chad Hartigan',
'Screenplay by': 'Mattson Tomlin',
'Based on': '"Little Fish" by Aja Gabel',

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'Produced by': ['Lia Buman',  
 'Rian Cahill',  
 'Tim Headington',  
 'Brian Kavanaugh-Jones',  
 'Mattson Tomlin'],  
 'Starring': ['Olivia Cooke', 'Jack O'Connell', 'Raúl Castillo', 'Soko'],  
 'Cinematography': 'Sean McElwee',  
 'Edited by': 'Josh Crockett',  
 'Music by': 'Keegan DeWitt',  
 'Production companies': ['Automatik',  
 'Black Bear Pictures',  
 'Tango Entertainment',  
 'Oddfellows Entertainment'],  
 'Distributed by': 'IFC Films',  
 'Release dates': ['October 1, 2020 ( 2020-10-01 ) ( Newport Beach Film Festival )',  
 'February 5, 2021 ( 2021-02-05 ) (United States)'],  
 'Running time': '101 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Box office': '\$39,053',  
 'Budget (float)': None,  
 'Box office (float)': 39053.0,  
 'Running time (int)': 101},  
 {'title': 'The Matrix Resurrections',  
 'Directed by': 'Lana Wachowski',  
 'Written by': ['Lana Wachowski', 'David Mitchell', 'Aleksandar Hemon'],  
 'Based on': 'Characters by The Wachowskis',  
 'Produced by': ['James McTeigue', 'Lana Wachowski', 'Grant Hill'],  
 'Starring': ['Keanu Reeves',  
 'Carrie-Anne Moss',  
 'Yahya Abdul-Mateen II',  
 'Jessica Henwick',  
 'Jonathan Groff',  
 'Neil Patrick Harris',  
 'Priyanka Chopra Jonas',  
 'Jada Pinkett Smith'],  
 'Cinematography': ['Daniele Massaccesi', 'John Toll'],  
 'Edited by': 'Joseph Jett Sally',  
 'Music by': ['Johnny Klimek', 'Tom Tykwer'],  
 'Production companies': ['Warner Bros. Pictures',  
 'Village Roadshow Pictures',  
 'Venus Castina Productions'],  
 'Distributed by': 'Warner Bros. Pictures',  
 'Release dates': ['December 18, 2021 ( 2021-12-18 ) ( Castro Theater )',  
 'December 22, 2021 ( 2021-12-22 ) (United States)'],  
 'Running time': '148 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$190 million',  
 'Box office': '\$157.3 million',  
 'Budget (float)': 190000000.0,  
 'Box office (float)': 157300000.0,  
 'Running time (int)': 148},  
 {'title': 'Mother/Android',  
 'Directed by': 'Mattson Tomlin',  
 'Written by': 'Mattson Tomlin',  
 'Produced by': ['Matt Reeves',  
 'Bill Block',  
 'Mattson Tomlin',  
 'Rafi Crohn',  
 'Adam Kassan',  
 'Charles Miller'],  
 'Starring': ['Chloë Grace Moretz', 'Algee Smith', 'Raúl Castillo'],  
 'Cinematography': 'Patrick Scola',  
 'Edited by': 'Andrew Groves',  
 'Music by': ['Kevin Henthorn', 'Michelle Birskey'],



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'Production companies': ['Miramax', '6th & Idaho Motion Picture Company'],
'Distributed by': ['Hulu (United States)', 'Netflix (International)'],
'Release dates': ['December 17, 2021 ( 2021-12-17 ) (United States)',
'January 7, 2022 ( 2022-01-07 ) (International)'],
'Running time': '111 minutes',
'Country': 'United States',
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': 111},
{'title': 'Needle in a Timestack',
'Directed by': 'John Ridley',
'Written by': 'John Ridley',
'Based on': '"Needle in a Timestack" by Robert Silverberg',
'Produced by': ['Zanne Devine',
'Aaron L. Gilbert',
'Matt Kennedy',
'David Thwaites'],
'Starring': ['Leslie Odom Jr.',
'Freida Pinto',
'Cynthia Erivo',
'Orlando Bloom',
'Jadyn Wong'],
'Cinematography': 'Ramsey Nickell',
'Edited by': 'Luyen Vu',
'Music by': 'Mark Isham',
'Production companies': ['Bron Studios',
'Pacific Northwest Pictures',
'Ember20',
'International Famous Players Radio Picture Corporation'],
'Distributed by': 'Lionsgate',
'Release date': ['October 15, 2021 ( 2021-10-15 ) (United States)'],
'Running time': '111 minutes',
'Country': 'United States',
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': 111},
{'title': 'Night Raiders',
'Directed by': 'Danis Goulet',
'Screenplay by': 'Danis Goulet',
'Produced by': ['Paul Barkin',
'Tara Woodbury',
'Georgina Conder',
'Chelsea Winstanley',
'Ainsley Gardiner'],
'Starring': ['Elle-Máijá Tailfeathers',
'Brooklyn Letexier-Hart',
'Alex Tarrant',
'Amanda Plummer',
'Violet Nelson'],
'Cinematography': 'Daniel Grant',
'Edited by': 'Jorge Weisz',
'Music by': 'Moniker',
'Production company': 'XYZ Films',
'Distributed by': 'Samuel Goldwyn Films',
'Release date': ['March 2021 ( 2021-03 ) ( Berlinale )'],
'Running time': '101 minutes',
'Countries': ['Canada (Hamilton,Toronto Ontario)', 'New Zealand'],
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': 101},
{'title': 'Outside the Wire',
'Directed by': 'Mikael Håfström',
'Screenplay by': ['Rob Yescombe', 'Rowan Athale'],

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    'Story by': 'Rob Yescombe',
    'Produced by': ['Brian Kavanaugh-Jones',
        'Anthony Mackie',
        'Ben Pugh',
        'Erica Steinberg',
        'Jason Spire',
        'Arash Amel'],
    'Starring': ['Anthony Mackie',
        'Damson Idris',
        'Emily Beecham',
        'Michael Kelly',
        'Pilou Asbæk'],
    'Cinematography': 'Michael Bonvillain',
    'Edited by': 'Rickard Krantz',
    'Music by': 'Lorne Balfe',
    'Production companies': ['Automatik Entertainment',
        '42 Films',
        'Inspire Entertainment'],
    'Distributed by': 'Netflix',
    'Release date': ['January 15, 2021 ( 2021-01-15 )'],
    'Running time': '115 minutes',
    'Country': 'United States',
    'Language': 'English',
    'Budget (float)': None,
    'Box office (float)': None,
    'Running time (int)': 115},
    {'title': 'Oxygen',
    'Directed by': 'Alexandre Aja',
    'Written by': 'Christie LeBlanc',
    'Produced by': ['Alexandre Aja',
        'Grégory Levasseur',
        'Vincent Maraval',
        'Brahim Chioua',
        'Noémie Devide'],
    'Starring': ['Mélanie Laurent', 'Mathieu Amalric', 'Malik Zidi'],
    'Cinematography': 'Maxime Alexandre',
    'Edited by': 'Hervé Schneid',
    'Music by': 'Rob',
    'Production companies': ['Gateway Films',
        'Wild Bunch',
        'Echo Lake Entertainment'],
    'Distributed by': 'Netflix',
    'Release date': ['May 12, 2021 ( 2021-05-12 )'],
    'Running time': '101 minutes',
    'Countries': ['United States', 'France'],
    'Language': 'French',
    'Budget (float)': None,
    'Box office (float)': None,
    'Running time (int)': 101},
    {'title': 'Quarantine',
    'Directed by': 'Diana Ringo',
    'Written by': 'Diana Ringo',
    'Produced by': 'Diana Ringo',
    'Starring': 'Anatoliy Beliy , Aleksandr Obmanov',
    'Cinematography': 'Dmitry Strizhevsky',
    'Edited by': 'Diana Ringo',
    'Music by': 'Diana Ringo',
    'Production company': 'Ælita Productions',
    'Release dates': ['14 September 2021 ( 2021-09-14 ) (Amur Autumn Film and Theater Fest
ival)',
        '2 November 2021 ( 2021-11-02 ) (Amazon Prime)'],
    'Running time': '74 minutes',
    'Countries': 'Russia, Ukraine, Finland',
    'Language': 'Russian',
    'Budget (float)': None,
    'Box office (float)': None,

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'Running time (int)': 74},
{'title': 'Reminiscence',
 'Directed by': 'Lisa Joy',
 'Written by': 'Lisa Joy',
 'Produced by': ['Lisa Joy',
 'Jonathan Nolan',
 'Michael De Luca',
 'Aaron Ryder'],
 'Starring': ['Hugh Jackman',
 'Rebecca Ferguson',
 'Thandiwe Newton',
 'Cliff Curtis'],
 'Cinematography': 'Paul Cameron',
 'Edited by': 'Mark Yoshikawa',
 'Music by': 'Ramin Djawadi',
 'Production companies': ['FilmNation Entertainment',
 'Kilter Films',
 'Michael De Luca Productions'],
 'Distributed by': 'Warner Bros. Pictures',
 'Release dates': ['August 11, 2021 ( 2021-08-11 ) ( BFI IMAX )',
 'August 20, 2021 ( 2021-08-20 ) (United States)'],
 'Running time': '116 minutes',
 'Country': 'United States',
 'Language': 'English',
 'Budget': '$54-68 million',
 'Box office': '$16.4 million',
 'Budget (float)': 54000000.0,
 'Box office (float)': 16399999.999999998,
 'Running time (int)': 116},
{'title': 'Settlers',
 'Directed by': 'Wyatt Rockefeller',
 'Screenplay by': 'Wyatt Rockefeller',
 'Produced by': ['Julie Fabrizio',
 'Joshua Horsfield',
 'Johan Kruger',
 'Jason Mandl',
 'Kenny Moleme'],
 'Starring': ['Sofia Boutella',
 'Ismael Cruz Córdova',
 'Brooklyn Prince',
 'Nell Tiger Free',
 'Jonny Lee Miller'],
 'Cinematography': 'Willie Nel',
 'Edited by': 'Johnny Daukes',
 'Music by': 'Nitin Sawhney',
 'Production companies': ['Jericho Motion Pictures',
 'Intake Films',
 'Brittle Star Pictures',
 '42'],
 'Distributed by': 'IFC Midnight',
 'Release dates': ['18 June 2021 ( 2021-06-18 ) ( Tribeca )',
 '23 July 2021 ( 2021-07-23 ) (United Kingdom)'],
 'Running time': '103 minutes',
 'Country': 'United Kingdom',
 'Language': 'English',
 'Box office': '$29,183',
 'Budget (float)': None,
 'Box office (float)': 29183.0,
 'Running time (int)': 103},
{'title': 'Stowaway',
 'Directed by': 'Joe Penna',
 'Written by': ['Joe Penna', 'Ryan Morrison'],
 'Produced by': ['Aram Tertzakian',
 'Nick Spicer',
 'Jonas Katzenstein',
 'Maximilian Leo',

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'Ulrich Schwarz',  
 'Clay Pecorin'],  
 'Starring': ['Anna Kendrick',  
 'Daniel Dae Kim',  
 'Shamier Anderson',  
 'Toni Collette'],  
 'Cinematography': 'Klemens Becker',  
 'Edited by': 'Ryan Morrison',  
 'Music by': 'Volker Bertelmann',  
 'Production companies': ['XYZ Films',  
 'Augenschein Filmproduktion',  
 'Rise Pictures',  
 'RainMaker Films'],  
 'Distributed by': ['Netflix (select countries)', 'Wild Bunch (Germany)'],  
 'Release date': ['April 22, 2021 ( 2021-04-22 )'],  
 'Running time': '116 minutes',  
 'Countries': ['United States', 'Germany'],  
 'Language': 'English',  
 'Budget': '\$10 million',  
 'Budget (float)': 10000000.0,  
 'Box office (float)': None,  
 'Running time (int)': 116},  
 {'title': 'Space Sweepers',  
 'Hangul': '승리호',  
 'Hanja': '勝利號',  
 'Revised Romanization': 'Seungriho',  
 'Directed by': 'Jo Sung-hee',  
 'Written by': ['Yoon Seung-min', 'Yoo-kang Seo-ae', 'Jo Sung-hee'],  
 'Produced by': ['Yoon In-beom', 'Kim Soo-jin'],  
 'Starring': ['Song Joong-ki', 'Kim Tae-ri', 'Jin Seon-kyu', 'Yoo Hae-jin'],  
 'Cinematography': 'Byun Bong-sun',  
 'Edited by': ['Nam Na-young', 'Ha Mi-ra'],  
 'Music by': 'Kim Tae-seong',  
 'Production companies': ['Bidangil Pictures', 'Dexter Studios'],  
 'Distributed by': 'Netflix',  
 'Release date': ['February 5, 2021 ( 2021-02-05 )'],  
 'Running time': '136 minutes',  
 'Country': 'South Korea',  
 'Languages': 'Korean English',  
 'Budget': '₩24 billion (~US\$21.2 million)',  
 'Budget (float)': 21200000.0,  
 'Box office (float)': None,  
 'Running time (int)': 136},  
 {'title': 'Spider-Man: No Way Home',  
 'Directed by': 'Jon Watts',  
 'Written by': ['Chris McKenna', 'Erik Sommers'],  
 'Based on': ['Stan Lee', 'Steve Ditko'],  
 'Produced by': ['Kevin Feige', 'Amy Pascal'],  
 'Starring': ['Tom Holland',  
 'Zendaya',  
 'Benedict Cumberbatch',  
 'Jacob Batalon',  
 'Jon Favreau',  
 'Jamie Foxx',  
 'Willem Dafoe',  
 'Alfred Molina',  
 'Benedict Wong',  
 'Tony Revolori',  
 'Marisa Tomei',  
 'Andrew Garfield',  
 'Tobey Maguire'],  
 'Cinematography': 'Mauro Fiore',  
 'Edited by': ['Jeffrey Ford', 'Leigh Folsom Boyd'],  
 'Music by': 'Michael Giacchino',  
 'Production companies': ['Columbia Pictures',  
 'Marvel Studios'],

'Pascal Pictures'],  
 'Distributed by': 'Sony Pictures Releasing',  
 'Release dates': ['December 13, 2021 ( 2021-12-13 ) ( Fox Village Theatre )',  
 'December 17, 2021 ( 2021-12-17 ) (United States)'],  
 'Running time': '148 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Budget': '\$200 million',  
 'Box office': '\$1.916 billion',  
 'Budget (float)': 200000000.0,  
 'Box office (float)': 1916000000.0,  
 'Running time (int)': 148},  
 {'title': 'Strawberry Mansion',  
 'Directed by': ['Albert Birney', 'Kentucker Audley'],  
 'Written by': ['Albert Birney', 'Kentucker Audley'],  
 'Produced by': ['Sarah Winshall',  
 'Taylor Shung',  
 'Emma Hannaway',  
 'Matisse Rifai'],  
 'Starring': ['Penny Fuller',  
 'Kentucker Audley',  
 'Grace Glowicki',  
 'Reed Birney',  
 'Linas Phillips',  
 'Constance Shulman'],  
 'Cinematography': 'Tyler Davis',  
 'Edited by': ['Albert Birney', 'Kentucker Audley'],  
 'Music by': 'Dan Deacon',  
 'Production companies': ['Ley Line Entertainment',  
 'Kaleidoscope Pictures',  
 'Salem Street Entertainment',  
 'UnLTD Productions',  
 'Cartuna'],  
 'Distributed by': 'Music Box Films (United States) Alief (International)',  
 'Release dates': ['January 29, 2021 ( 2021-01-29 ) ( Sundance )',  
 'February 18, 2022 ( 2022-02-18 ) (United States)'],  
 'Running time': '91 minutes',  
 'Country': 'United States',  
 'Language': 'English',  
 'Box office': '\$97,526',  
 'Budget (float)': None,  
 'Box office (float)': 97526.0,  
 'Running time (int)': 91},  
 {'title': 'The Suicide Squad',  
 'Directed by': 'James Gunn',  
 'Written by': 'James Gunn',  
 'Based on': 'Characters from DC',  
 'Produced by': ['Charles Roven', 'Peter Safran'],  
 'Starring': ['Margot Robbie',  
 'Idris Elba',  
 'John Cena',  
 'Joel Kinnaman',  
 'Sylvester Stallone',  
 'Viola Davis',  
 'Jai Courtney',  
 'Peter Capaldi'],  
 'Cinematography': 'Henry Braham',  
 'Edited by': ['Fred Raskin', 'Christian Wagner'],  
 'Music by': 'John Murphy',  
 'Production companies': ['DC Films',  
 'Atlas Entertainment',  
 'The Safran Company'],  
 'Distributed by': 'Warner Bros. Pictures',  
 'Release dates': ['July 30, 2021 ( 2021-07-30 ) (United Kingdom)',  
 'August 5, 2021 ( 2021-08-05 ) (United States)'],  
 'Running time': '132 minutes',

```

'Country': 'United States',
'Language': 'English',
'Budget': '$185 million',
'Box office': '$168.7 million',
'Budget (float)': 185000000.0,
'Box office (float)': 168700000.0,
'Running time (int)': 132},
{'title': 'Tides',
'Directed by': 'Tim Fehlbaum',
'Screenplay by': ['Tim Fehlbaum', 'Mariko Minoguchi'],
'Produced by': ['Thomas Wöbke',
'Philipp Trauer',
'Ruth Waldburger',
'Constanze Guttman'],
'Starring': ['Nora Arnezeder',
'Sarah-Sofie Boussnina',
'Iain Glen',
'Joel Basman',
'Sebastian Roché',
'Bella Bading',
'Sope Dirisu',
'Cloé Albertine Heinrich'],
'Cinematography': 'Markus Förderer',
'Edited by': 'Andreas Menn',
'Music by': 'Lorenz Dangel',
'Production companies': ['BerghausWöbke Filmproduktion',
'Vega Film',
'Constantin Film'],
'Distributed by': ['Constantin Film (Germany)',
'Saban Films (North America)],
'Release dates': ['March 1, 2021 ( 2021-03-01 ) ( Berlinale )',
'August 26, 2021 ( 2021-08-26 ) (Germany)',
'August 27, 2021 ( 2021-08-27 ) (North America)'],
'Running time': '104 min',
'Countries': ['Germany', 'Switzerland'],
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': 104},
{'title': 'The Tomorrow War',
'Directed by': 'Chris McKay',
'Written by': 'Zach Dean',
'Produced by': ['David Ellison',
'Dana Goldberg',
'Don Granger',
'Jules Daly',
'David S. Goyer',
'Adam Kolbrenner'],
'Starring': ['Chris Pratt',
'Yvonne Strahovski',
'J. K. Simmons',
'Betty Gilpin',
'Sam Richardson',
'Edwin Hodge'],
'Cinematography': 'Larry Fong',
'Edited by': ['Roger Barton', 'Garret Elkins'],
'Music by': 'Lorne Balfe',
'Production companies': ['Skydance',
'Paramount Pictures',
'New Republic Pictures'],
'Distributed by': 'Amazon Studios',
'Release date': ['July 2, 2021 ( 2021-07-02 )'],
'Running time': '138 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$200 million',

```

```

'Box office': '$19.2 million',
'Budget (float)': 200000000.0,
'Box office (float)': 19200000.0,
'Running time (int)': 138},
{'title': 'Venom: Let There Be Carnage',
'Directed by': 'Andy Serkis',
'Screenplay by': 'Kelly Marcel',
'Story by': ['Tom Hardy', 'Kelly Marcel'],
'Based on': 'Marvel Comics',
'Produced by': ['Avi Arad',
'Matt Tolmach',
'Amy Pascal',
'Kelly Marcel',
'Tom Hardy',
'Hutch Parker'],
'Starring': ['Tom Hardy',
'Michelle Williams',
'Naomie Harris',
'Reid Scott',
'Stephen Graham',
'Woody Harrelson'],
'Cinematography': 'Robert Richardson',
'Edited by': ['Maryann Brandon', 'Stan Salfas'],
'Music by': 'Marco Beltrami',
'Production companies': ['Columbia Pictures',
'Marvel Entertainment',
'Arad Productions',
'Matt Tolmach Productions',
'Pascal Pictures'],
'Distributed by': 'Sony Pictures Releasing',
'Release dates': ['September 14, 2021 ( 2021-09-14 ) (London)',
'October 1, 2021 ( 2021-10-01 ) (United States)'],
'Running time': '97 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$110 million',
'Box office': '$506.9 million',
'Budget (float)': 110000000.0,
'Box office (float)': 506900000.0,
'Running time (int)': 97},
{'title': 'Voyagers',
'Directed by': 'Neil Burger',
'Written by': 'Neil Burger',
'Produced by': ['Basil Iwanyk', 'Neil Burger', 'Brendon Boyea'],
'Starring': ['Tye Sheridan',
'Lily-Rose Depp',
'Fionn Whitehead',
'Colin Farrell',
'Chanté Adams',
'Isaac Hempstead Wright',
'Viveik Kalra',
'Archie Renaux',
'Quintessa Swindell'],
'Cinematography': 'Enrique Chediak',
'Edited by': 'Naomi Geraghty',
'Music by': 'Trevor Gureckis',
'Production companies': ['AGC Studios',
'Thunder Road',
'Nota Bene Films',
'Fibonacci Films',
'Stillking Films',
'Freeccs Films',
'Ingenious Media'],
'Distributed by': 'Lionsgate',
'Release date': ['April 9, 2021 ( 2021-04-09 ) (United States)'],
'Running time': '108 minutes',

```

```

    'Countries': ['United States',
    'United Kingdom',
    'Czech Republic',
    'Romania'],
    'Language': 'English',
    'Budget': '$29 million',
    'Box office': '$4.2 million',
    'Budget (float)': 29000000.0,
    'Box office (float)': 4200000.0,
    'Running time (int)': 108},
{'title': 'Warning',
'Directed by': 'Agata Alexander',
'Written by': ['Agata Alexander', 'Rob Michaelson', 'Jason Kaye'],
'Produced by': ['Cybill Lui', 'Stanislaw Dziedzic'],
'Starring': ['Alex Pettyfer',
'Alice Eve',
'Annabel Mullion',
'Annabelle Wallis',
'Benedict Samuel',
'Charlotte Le Bon',
'Garance Marillier',
'Kylie Bunbury',
'Patrick Schwarzenegger',
'Rupert Everett',
'Thomas Jane',
'Tomasz Kot',
'Toni Garrn',
'James D'Arcy'],
'Cinematography': 'Jakub Kijowski',
'Edited by': ['Nikodem Chabior', 'Cam Mclauchlin'],
'Music by': 'Gregory Tripi',
'Production companies': ['Grindstone Entertainment Group',
'Anova Pictures',
'Film Produkcja',
'Studio Mao',
'Lost Lane Entertainment',
'Particular Crowd',
'Needle's Eye Entertainment'],
'Distributed by': 'Lionsgate',
'Release date': ['October 13, 2021 ( 2021-10-13 ) ( Sitges )'],
'Running time': '85 minutes',
'Countries': ['United States', 'Poland'],
'Language': 'English',
'Budget (float)': None,
'Box office (float)': None,
'Running time (int)': 85},
{'title': "Zack Snyder's Justice League",
'Directed by': 'Zack Snyder',
'Screenplay by': 'Chris Terrio',
'Story by': ['Chris Terrio', 'Zack Snyder', 'Will Beall'],
'Based on': 'Characters from DC',
'Produced by': ['Charles Roven', 'Deborah Snyder'],
'Starring': ['Ben Affleck',
'Henry Cavill',
'Amy Adams',
'Gal Gadot',
'Ray Fisher',
'Jason Momoa',
'Ezra Miller',
'Willem Dafoe',
'Jesse Eisenberg',
'Jeremy Irons',
'Diane Lane',
'Connie Nielsen',
'J. K. Simmons'],
'Cinematography': 'Fabian Wagner',

```



```

'Edited by': 'David Brenner',
'Music by': 'Tom Holkenborg',
'Production companies': ['Warner Bros. Pictures',
    'Access Entertainment',
    'Dune Entertainment',
    'DC Films',
    'Atlas Entertainment',
    'The Stone Quarry'],
'Distributed by': ['HBO Max', 'Warner Bros. Pictures'],
'Release date': ['March 18, 2021 ( 2021-03-18 )'],
'Running time': '242 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$70 million',
'Budget (float)': 70000000.0,
'Box office (float)': None,
'Running time (int)': 242},
{'title': 'Zone 414',
'Directed by': 'Andrew Baird',
'Written by': 'Bryan Edward Hill',
'Produced by': ['Martin Brennan',
    'Jib Polhemus',
    'Deborah Shaw-Kolar',
    'Andrew Baird'],
'Starring': ['Guy Pearce', 'Matilda Lutz', 'Jonathan Aris', 'Travis Fimmel'],
'Cinematography': 'James Mather',
'Edited by': 'Tony Cranstoun',
'Music by': 'Raffertie',
'Production companies': ['Highland Film Group',
    'El Ride Productions',
    'Northern Ireland Screen',
    '23ten Productions',
    'Source Management + Production',
    'Bairdfilm',
    'Great Point Media'],
'Distributed by': 'Saban Films',
'Release date': ['September 3, 2021 ( 2021-09-03 )'],
'Running time': '99 minutes',
'Country': 'United States',
'Language': 'English',
'Budget': '$5 million',
'Budget (float)': 5000000.0,
'Box office (float)': None,
'Running time (int)': 99}]

```

### 3.3.1 Implement function retrieve\_omdb\_info

Import api key from secret file and get the data with its title URL

```

In [17]: # my_api_key is in secret.py folder
from secret import *

import requests
import urllib
import os

def retrieve_omdb_info(title):
    root_url = "http://www.omdbapi.com/?&"
    parameters = {"apikey": my_api_key, "t": title}
    params_encoded = urllib.parse.urlencode(parameters)
    complete_url = root_url + params_encoded
    print(complete_url)
    return requests.get(complete_url).json()

```

```
retrieve_omdb_info("Archive")
```

Out[17]:

```
http://www.omdbapi.com/?apikey=d70c01ae&t=Archive
{'Title': 'Archive',
 'Year': '2020',
 'Rated': 'TV-MA',
 'Released': '10 Jul 2020',
 'Runtime': '109 min',
 'Genre': 'Drama, Mystery, Sci-Fi',
 'Director': 'Gavin Rothery',
 'Writer': 'Gavin Rothery',
 'Actors': 'Theo James, Stacy Martin, Rhona Mitra',
 'Plot': '2038: George Almore is working on a true human-equivalent AI. His latest proto
type is almost ready. This sensitive phase is also the riskiest. Especially as he has a
goal that must be hidden at all costs.',
 'Language': 'English, Japanese, French',
 'Country': 'United Kingdom, Hungary, United States',
 'Awards': '1 win & 1 nomination',
 'Poster': 'https://m.media-amazon.com/images/M/MV5BMzFkNTRiMzYtODM2MS00YWQ2LTlkNTUzMDE1
Y2E2YjAwYTUxXkEyXkFqcGdeQXVyMzQwMTY2Nzk@._V1_SX300.jpg',
 'Ratings': [{'Source': 'Internet Movie Database', 'Value': '6.3/10'},
 {'Source': 'Rotten Tomatoes', 'Value': '78%'},
 {'Source': 'Metacritic', 'Value': '67/100'}],
 'Metascore': '67',
 'imdbRating': '6.3',
 'imdbVotes': '22,667',
 'imdbID': 'tt6882604',
 'Type': 'movie',
 'DVD': '10 Jul 2020',
 'BoxOffice': '$139,593',
 'Production': 'N/A',
 'Website': 'N/A',
 'Response': 'True'}
```

### 3.3.2 Create new list of imdb rating and movie plot

The process might take around 30 seconds to load

In [18]:

```
for movie in movie_detail_list:
    title = movie['title']
    omdb_info = retrieve_omdb_info(title)
    movie['imdb'] = omdb_info.get('imdbRating', None)
    movie['plot'] = omdb_info.get('Plot', None)
```

```
http://www.omdbapi.com/?apikey=d70c01ae&t=2067
http://www.omdbapi.com/?apikey=d70c01ae&t=Archive
http://www.omdbapi.com/?apikey=d70c01ae&t=Artemis+Fowl
http://www.omdbapi.com/?apikey=d70c01ae&t=Bill+%26+Ted+Face+the+Music
http://www.omdbapi.com/?apikey=d70c01ae&t=Bloodshot
http://www.omdbapi.com/?apikey=d70c01ae&t=Breach
http://www.omdbapi.com/?apikey=d70c01ae&t=Color+Out+of+Space
http://www.omdbapi.com/?apikey=d70c01ae&t=Cosmoball
http://www.omdbapi.com/?apikey=d70c01ae&t=Freaks%3A+You%27re+One+of+Us
http://www.omdbapi.com/?apikey=d70c01ae&t=Friend+of+the+World
http://www.omdbapi.com/?apikey=d70c01ae&t=Intersect
http://www.omdbapi.com/?apikey=d70c01ae&t=Invasion
http://www.omdbapi.com/?apikey=d70c01ae&t=The+Invisible+Man
http://www.omdbapi.com/?apikey=d70c01ae&t=Jiu+Jitsu
http://www.omdbapi.com/?apikey=d70c01ae&t=The+Midnight+Sky
http://www.omdbapi.com/?apikey=d70c01ae&t=Minor+Premise
http://www.omdbapi.com/?apikey=d70c01ae&t=The+New+Mutants
http://www.omdbapi.com/?apikey=d70c01ae&t=PG%3A+Psycho+Goreman
http://www.omdbapi.com/?apikey=d70c01ae&t=Possessor
http://www.omdbapi.com/?apikey=d70c01ae&t=Project+Power
```

```

http://www.omdbapi.com/?&apikey=d70c01ae&t=Skylines
http://www.omdbapi.com/?&apikey=d70c01ae&t=Sonic+the+Hedgehog
http://www.omdbapi.com/?&apikey=d70c01ae&t=Sputnik
http://www.omdbapi.com/?&apikey=d70c01ae&t=Tenet
http://www.omdbapi.com/?&apikey=d70c01ae&t=Tiong+Bahru+Social+Club
http://www.omdbapi.com/?&apikey=d70c01ae&t=Chaos+Walking
http://www.omdbapi.com/?&apikey=d70c01ae&t=Cosmic+Sin
http://www.omdbapi.com/?&apikey=d70c01ae&t=Cube
http://www.omdbapi.com/?&apikey=d70c01ae&t=Don%27t+Look+Up
http://www.omdbapi.com/?&apikey=d70c01ae&t=Dune
http://www.omdbapi.com/?&apikey=d70c01ae&t=Encounter
http://www.omdbapi.com/?&apikey=d70c01ae&t=Evangeliion%3A+3.0%2B1.0+Thrice+Upon+a+Time
http://www.omdbapi.com/?&apikey=d70c01ae&t=Finch
http://www.omdbapi.com/?&apikey=d70c01ae&t=The+Forever+Purge
http://www.omdbapi.com/?&apikey=d70c01ae&t=Ghostbusters%3A+Afterlife
http://www.omdbapi.com/?&apikey=d70c01ae&t=Glasshouse
http://www.omdbapi.com/?&apikey=d70c01ae&t=Godzilla+vs.+Kong
http://www.omdbapi.com/?&apikey=d70c01ae&t=Little+Fish
http://www.omdbapi.com/?&apikey=d70c01ae&t=The+Matrix+Resurrections
http://www.omdbapi.com/?&apikey=d70c01ae&t=Mother%2FAndroid
http://www.omdbapi.com/?&apikey=d70c01ae&t=Needle+in+a+Timestack
http://www.omdbapi.com/?&apikey=d70c01ae&t=Night+Raiders
http://www.omdbapi.com/?&apikey=d70c01ae&t=Outside+the+Wire
http://www.omdbapi.com/?&apikey=d70c01ae&t=Oxygen
http://www.omdbapi.com/?&apikey=d70c01ae&t=Quarantine
http://www.omdbapi.com/?&apikey=d70c01ae&t=Reminiscence
http://www.omdbapi.com/?&apikey=d70c01ae&t=Settlers
http://www.omdbapi.com/?&apikey=d70c01ae&t=Stowaway
http://www.omdbapi.com/?&apikey=d70c01ae&t=Space+Sweepers
http://www.omdbapi.com/?&apikey=d70c01ae&t=Spider-Man%3A+No+Way+Home
http://www.omdbapi.com/?&apikey=d70c01ae&t=Strawberry+Mansion
http://www.omdbapi.com/?&apikey=d70c01ae&t=The+Suicide+Squad
http://www.omdbapi.com/?&apikey=d70c01ae&t=Tides
http://www.omdbapi.com/?&apikey=d70c01ae&t=The+Tomorrow+War
http://www.omdbapi.com/?&apikey=d70c01ae&t=Venom%3A+Let+There+Be+Carnage
http://www.omdbapi.com/?&apikey=d70c01ae&t=Voyagers
http://www.omdbapi.com/?&apikey=d70c01ae&t=Warning
http://www.omdbapi.com/?&apikey=d70c01ae&t=Zack+Snyder%27s+Justice+League
http://www.omdbapi.com/?&apikey=d70c01ae&t=Zone+414

```

### 3.3.3 Test Omdb API returns data

```

In [19]: for movie in movie_detail_list:
          print([movie.get('imdb')],end=", ")

```

```

print("")
print("")
print("")

```

```

for movie in movie_detail_list:
    print([movie.get('plot')],end=" ")

```

```

['4.9'], ['6.3'], ['4.2'], ['5.9'], ['5.7'], ['7.0'], ['6.2'], ['4.7'], ['5.4'], ['6.
1'], ['3.7'], ['6.0'], ['7.1'], ['2.9'], ['5.6'], ['5.6'], ['5.3'], [None], ['6.5'],
['6.0'], ['4.7'], ['6.5'], ['6.4'], ['7.3'], ['6.7'], ['5.7'], ['2.5'], ['7.2'], ['7.
2'], ['8.0'], ['5.9'], [None], ['6.9'], ['5.4'], ['7.1'], ['5.5'], ['6.3'], ['6.2'],
['5.7'], ['4.9'], ['5.1'], ['5.2'], ['5.4'], ['6.5'], ['5.9'], ['5.9'], ['4.7'], ['5.
6'], ['6.5'], ['8.3'], ['6.4'], ['7.2'], ['6.9'], ['6.5'], ['5.9'], ['5.4'], ['4.6'],
['8.0'], ['5.0'],

```

```

["One man's journey to the future to save a dying world."] ['2038: George Almore is work
ing on a true human-equivalent AI. His latest prototype is almost ready. This sensitive
phaseis also the riskiest. Especially as he has a goal that must be hidden at all cost
s.']['Artemis Fowl, a young criminal prodigy, hunts down a secret society of fairies to

```

find his missing father.'] ['Once told their father'd save the universe during a time-traveling adventure, 2 would-be rockers from San Dimas, California find themselves as middle-aged dads still trying to crank out a hit song and fulfill their destiny.']['Ray Garrison, a slain soldier, is re-animated with superpowers.']['FBI upstart Eric O'Neill enters into a power game with his boss, Robert Hanssen, an agent who was put on trial for selling secrets to the Soviet Union.']['A secluded farm is struck by a strange meteorite which has apocalyptic consequences for the family living there and possibly the world.']['An enormous spaceship hovers over Earth-this is a stadium, which hosts sports events that resemble soccer but at mind-boggling speeds. The name of the game is cosmoball.']['Tipped by a mysterious tramp, a meek fry cook discovers she has superpowers -- and uncovers an unsavory, vast conspiracy.']['After a catastrophic war, an eccentric general guides a filmmaker through a ravaged bunker.']['A group of young Miskatonic University scientists invent a time machine, only to learn that they are being manipulated by mysterious, unseen forces from another dimension.']['Earth is visited by an alien species that threatens humanity's existence. Events unfold in real time through the eyes of five ordinary people across the globe as they struggle to make sense of the chaos unraveling around them.']['When Cecilia's abusive ex takes his own life and leaves her his fortune, she suspects his death was a hoax. As a series of coincidences turn lethal, Cecilia works to prove that she is being hunted by someone nobody can see.']['Every six years, an ancient order of jiu-jitsu fighters joins forces to battle a vicious race of alien invaders. But when a celebrated war hero goes down in defeat, the fate of the planet and mankind hangs in the balance.']['This post-apocalyptic tale follows Augustine, a lonely scientist in the Arctic, as he races to stop Sully and her fellow astronauts from returning home to a mysterious global catastrophe.']['Attempting to surpass his father's legacy, a reclusive neuroscientist becomes entangled in his own experiment, pitting ten fragments of his consciousness against each other.']['Five young mutants, just discovering their abilities while held in a secret facility against their will, fight to escape their past sins and save themselves.']['None'] ['An agent works for a secretive organization that uses brain-implant technology to inhabit other people's bodies - ultimately driving them to commit assassinations for high-paying clients.']['When a pill that gives its users unpredictable superpowers for five minutes hits the streets of New Orleans, a teenage dealer and a local cop must team with an ex-soldier to take down the group responsible for its creation.']['When a virus threatens to turn the now earth-dwelling friendly alien hybrids against humans, Captain Rose Corley must lead a team of elite mercenaries on a mission to the alien world in order to save what's left of humanity.']['After discovering a small, blue, fast hedgehog, a small-town police officer must help him defeat an evil genius who wants to do experiments on him.']['The lone survivor of an enigmatic spaceship incident hasn't returned home alone - hiding inside his body is a dangerous creature.']['Armed with only one word, Tenet, and fighting for the survival of the entire world, a Protagonist journeys through a twilight world of international espionage on a mission that will unfold in something beyond real time.']['Ah Bee goes on a comedic odyssey through Tiong Bahru Social Club, a data-driven project to create the happiest neighborhood in the world. Little by little, his encounters with the neighborhood's residents reveal the absurdity of life...']['Two unlikely companions embark on a perilous adventure through the badlands of an unexplored planet as they try to escape a dangerous and disorienting reality where all thoughts are seen and heard by everyone.']['Seven rogue soldiers launch a preemptive strike against a newly discovered alien civilization in the hopes of ending an interstellar war before it starts.']['Six complete strangers with widely varying personalities are involuntarily placed in an endless maze containing deadly traps.']['Two low-level astronomers must go on a giant media tour to warn humankind of an approaching comet that will destroy planet Earth.']['A noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes troubled by visions of a dark future.']['Two brothers embark on a journey with their father, who is trying to protect them from an alien threat.']['None'] ['On a post-apocalyptic Earth, a robot, built to protect the life of his creator's beloved dog learns about life, love, friendship and what it means to be human.']['All the rules are broken as a sect of lawless marauders decides that the annual Purge does not stop at daybreak and instead should never end.']['When a single mom and her two kids arrive in a small town, they begin to discover their connection to the original Ghostbusters and the secret legacy their grandfather left behind.']['Confined to their glasshouse, a family survives The Shred, a toxin that erases memory. Until the sisters are seduced by a Stranger who shatters their peace and stirs a past best left buried.']['The epic next chapter in the cinematic Monsterverse pits two of the greatest icons in motion picture history against each other--the fearsome Godzilla and the mighty Kong--with humanity caught in the balance.']['A woman trying to escape her past becomes embroiled in a drug deal.']['Return to a world of two realities: one, everyday life; the other, what lies behind it. To find out if his reality is a constr

uct, to truly know himself, Mr. Anderson will have to choose to follow the white rabbit once more.']['In a post-apocalyptic world rocked by a violent android uprising, a young pregnant woman and her boyfriend desperately search for safety.']['Nick and Janine live in marital bliss until Janine's ex-husband warps time to try to tear them apart. As Nick's memories disappear, he must decide what he's willing to sacrifice in order to hold onto - or let go of - everything he...']['A mother joins an underground band of vigilantes to try to rescue her daughter from a state-run institution.']['In the near future, a drone pilot sent into a war zone finds himself paired with a top-secret android officer on a mission to stop a nuclear attack.']['A woman wakes in a cryogenic chamber with no recollection of how she got there. As she's running out of oxygen, she must rebuild her memory to find a way out of her nightmare.']['A television reporter and her cameraman are trapped inside a building quarantined by the CDC, after the outbreak of a mysterious virus which turns humans into bloodthirsty killers.']['Nick Bannister, a private investigator of the mind, navigates the alluring world of the past when his life is changed by new client Mae. A simple case becomes an obsession after she disappears and he fights to learn the truth about...']['Mankind's earliest settlers on the Martian frontier do what they must to survive the cosmic elements and each other.']['A three-person crew on a mission to Mars faces an impossible choice when an unplanned passenger jeopardizes the lives of everyone on board.']['Set in the year 2092 and follows the crew of a space junk collector ship called The Victory. When they discover a humanoid robot named Dorothy that's known to be a weapon of mass destruction, they get involved in a risky business...']['With Spider-Man's identity now revealed, Peter asks Doctor Strange for help. When a spell goes wrong, dangerous foes from other worlds start to appear, forcing Peter to discover what it truly means to be Spider-Man.']['In a future where the government records dreams and taxes them, a dream auditor gets caught up in the dreams of an aging eccentric.']['Supervillains Harley Quinn, Bloodsport, Peacemaker, and a collection of nutty cons at Belle Reve prison join the super-secret, super-shady Task Force X as they are dropped off at the remote, enemy-infused island of Corto Maltese.']['A devastating loss finds four friends navigating love, life and the canals of southern England.']['A family man is drafted to fight in a future war where the fate of humanity relies on his ability to confront the past.']['Eddie Brock attempts to reignite his career by interviewing serial killer Cletus Kasady, who becomes the host of the symbiote Carnage and escapes prison after a failed execution.']['A crew of astronauts on a multi-generational mission descend into paranoia and madness, not knowing what is real or not.']['The meaning of life explored through multiple interconnected lives set in the near future.']['Determined to ensure that Superman's ultimate sacrifice wasn't in vain, Bruce Wayne recruits a team of metahumans to protect the world from an approaching threat of catastrophic proportions.']['Set in the near future, private detective David Carmichael is hired by Marlon Veldt, an eccentric businessman, to track down his missing daughter. David teams up with Janie, a highly advanced A.I. to solve the mystery.']['

## 3.4 Save converted data with pickle for faster data parsing

```
In [20]: import pickle

def save_pickle_file(filename, inputData):
    # pickle can be read in binary
    with open(filename, 'wb') as file:
        pickle.dump(inputData, file)

save_pickle_file("sciencefiction_complete.pickle", movie_detail_list)
```

### 3.4.1 Read movie\_detail\_list from pickle file

```
In [21]: def load_pickle_file(filename):
    with open(filename, 'rb') as file:
        return pickle.load(file)

movie_detail_list = load_pickle_file("sciencefiction_complete.pickle")
```

## 3.4.2 Convert complete movie\_detail\_list into Pandas dataframe

```
In [22]: import pandas as pd

pd.set_option('display.max_colwidth', None)
pd.set_option('display.max_columns', None)

df1=pd.DataFrame(movie_detail_list)
df=df1.copy()[["title","Running time (int)","Box office (float)","Budget (float)", "plot"]
df.dropna(inplace=True)
df.reset_index(drop=True, inplace=True)

# convert imdb to correct number data type
df["imdb"]= pd.to_numeric(df["imdb"])
df
```

```
Out[22]:
```

	title	Running time (int)	Box office (float)	Budget (float)	plot	imdb
0	Bill & Ted Face the Music	91.0	6.300000e+06	25000000.0	Once told they'd save the universe during a time-traveling adventure, 2 would-be rockers from San Dimas, California find themselves as middle-aged dads still trying to crank out a hit song and fulfill their destiny.	5.9
1	Bloodshot	109.0	3.730000e+07	45000000.0	Ray Garrison, a slain soldier, is re-animated with superpowers.	5.7
2	Color Out of Space	111.0	1.000000e+06	6000000.0	A secluded farm is struck by a strange meteorite which has apocalyptic consequences for the family living there and possibly the world.	6.2
3	Invasion	129.0	1.580000e+07	14800000.0	Earth is visited by an alien species that threatens humanity's existence. Events unfold in real time through the eyes of five ordinary people across the globe as they struggle to make sense of the chaos unraveling around them.	6.0
4	The Invisible Man	124.0	1.445000e+08	7000000.0	When Cecilia's abusive ex takes his own life and leaves her his fortune, she suspects his death was a hoax. As a series of coincidences turn lethal, Cecilia works to prove that she is being hunted by someone nobody can see.	7.1
5	Jiu Jitsu	102.0	9.992400e+04	25000000.0	Every six years, an ancient order of jiu-jitsu fighters joins forces to battle a vicious race of alien invaders. But when a celebrated war hero goes down in defeat, the fate of the planet and mankind hangs in the balance.	2.9
6	The Midnight Sky	118.0	3.000000e+06	100000000.0	This post-apocalyptic tale follows Augustine, a lonely scientist in the Arctic, as he races to stop Sully and her fellow astronauts from returning home to a mysterious global catastrophe.	5.6
7	The New Mutants	94.0	4.920000e+07	67000000.0	Five young mutants, just discovering their abilities while held in a secret facility against their will, fight to escape their past sins and save themselves.	5.3
8	Skylines	110.0	1.705810e+05	26000000.0	When a virus threatens to turn the now earth-dwelling friendly alien hybrids against humans, Captain Rose Corley must lead a team of elite	4.7

mercenaries on a mission to the alien world in order to save what's left of humanity.

9	Sonic the Hedgehog	99.0	3.200000e+08	85000000.0	After discovering a small, blue, fast hedgehog, a small-town police officer must help him defeat an evil genius who wants to do experiments on him.	6.5
10	Sputnik	113.0	3.540230e+05	2600000.0	The lone survivor of an enigmatic spaceship incident hasn't returned home alone - hiding inside his body is a dangerous creature.	6.4
11	Tenet	150.0	3.653000e+08	200000000.0	Armed with only one word, Tenet, and fighting for the survival of the entire world, a Protagonist journeys through a twilight world of international espionage on a mission that will unfold in something beyond real time.	7.3
12	Chaos Walking	109.0	2.710000e+07	100000000.0	Two unlikely companions embark on a perilous adventure through the badlands of an unexplored planet as they try to escape a dangerous and disorienting reality where all thoughts are seen and heard by everyone.	5.7
13	Don't Look Up	138.0	7.918630e+05	75000000.0	Two low-level astronomers must go on a giant media tour to warn humankind of an approaching comet that will destroy planet Earth.	7.2
14	Dune	156.0	4.018000e+08	165000000.0	A noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes troubled by visions of a dark future.	8.0
15	The Forever Purge	103.0	7.700000e+07	18000000.0	All the rules are broken as a sect of lawless marauders decides that the annual Purge does not stop at daybreak and instead should never end.	5.4
16	Ghostbusters: Afterlife	124.0	2.044000e+08	75000000.0	When a single mom and her two kids arrive in a small town, they begin to discover their connection to the original Ghostbusters and the secret legacy their grandfather left behind.	7.1
17	Godzilla vs. Kong	113.0	4.701000e+08	155000000.0	The epic next chapter in the cinematic Monsterverse pits two of the greatest icons in motion picture history against each other--the fearsome Godzilla and the mighty Kong--with humanity caught in the balance.	6.3
18	The Matrix Resurrections	148.0	1.573000e+08	190000000.0	Return to a world of two realities: one, everyday life; the other, what lies behind it. To find out if his reality is a construct, to truly know himself, Mr. Anderson will have to choose to follow the white rabbit once more.	5.7
19	Reminiscence	116.0	1.640000e+07	54000000.0	Nick Bannister, a private investigator of the mind, navigates the alluring world of the past when his life is changed by new client Mae. A simple case becomes an obsession after she disappears and he fights to learn the truth about...	5.9
20	Spider-Man: No Way Home	148.0	1.916000e+09	200000000.0	With Spider-Man's identity now revealed, Peter asks Doctor Strange for help. When a spell goes wrong, dangerous foes from other worlds start to appear, forcing Peter to discover what it truly means to be Spider-Man.	8.3
21	The Suicide Squad	132.0	1.687000e+08	185000000.0	Supervillains Harley Quinn, Bloodsport, Peacemaker, and a collection of nutty cons at Belle Reve prison join the super-secret, super-shady Task Force X as they are dropped off at the remote, enemy-infused island of Corto Maltese.	7.2

22	The Tomorrow War	138.0	1.920000e+07	200000000.0	A family man is drafted to fight in a future war where the fate of humanity relies on his ability to confront the past.	6.5
23	Venom: Let There Be Carnage	97.0	5.069000e+08	110000000.0	Eddie Brock attempts to reignite his career by interviewing serial killer Cletus Kasady, who becomes the host of the symbiote Carnage and escapes prison after a failed execution.	5.9
24	Voyagers	108.0	4.200000e+06	29000000.0	A crew of astronauts on a multi-generational mission descend into paranoia and madness, not knowing what is real or not.	5.4

## 4.0 Exploratory data analysis

We use natural language processing techniques to process movie plot descriptions, this makes easier for us to find accurate common words in science movie plot descriptions

### 4.1 Implement create\_plot\_types function in order of with individual lambda functions:

- plot with lower case
- plot without stop words
- plot with tokenized words
- plot with only alphabetic words
- plot with lemmatized words

```
In [23]: #natural language processing
import nltk
from nltk.tokenize import word_tokenize
from nltk.stem import WordNetLemmatizer
from nltk.corpus import stopwords
from collections import Counter

stoppingWord = stopwords.words('english')

# use wordnet lemmatizer
wordnet_lemmatizer = WordNetLemmatizer()

def create_plot_types(df):

    # make all words lowercase in new column
    df["lowercase"] = df["plot"].str.lower()

    # remove stopwords from plot
    df["without_stopwords"] = df["lowercase"].apply(lambda x: ' '.join([word for word in x.split() if word not in stoppingWord]))

    # tokenize every word without stop word
    df['tokenized_words'] = df.apply(lambda x: nltk.word_tokenize(x['without_stopwords']))

    # column for actual alphabetic words only
    df['alpha_words'] = df['tokenized_words'].apply(lambda x: [word for word in x if word.isalpha()])

    # lemmatize the words in alphabets
    df['lemmatized_words'] = df['alpha_words'].apply(lambda x: [wordnet_lemmatizer.lemma(word) for word in x])
```



return df

```
In [24]: df_clean = create_plot_types(df)
df_clean
```

Out[24]:

	title	Running time (int)	Box office (float)	Budget (float)	plot	imdb	lowercase	without_stopwords	to
0	Bill & Ted Face the Music	91.0	6.300000e+06	25000000.0	Once told they'd save the universe during a time-traveling adventure, 2 would-be rockers from San Dimas, California find themselves as middle-aged dads still trying to crank out a hit song and fulfill their destiny.	5.9	once told they'd save the universe during a time-traveling adventure, 2 would-be rockers from san dimas, california find themselves as middle-aged dads still trying to crank out a hit song and fulfill their destiny.	told they'd save universe time- traveling adventure, 2 would-be rockers san dimas, california find middle-aged dads still trying crank hit song fulfill destiny.	d
1	Bloodshot	109.0	3.730000e+07	45000000.0	Ray Garrison, a slain soldier, is re- animated with superpowers.	5.7	ray garrison, a slain soldier, is re- animated with superpowers.	ray garrison, slain soldier, re-animated superpowers.	sla
2	Color Out of Space	111.0	1.000000e+06	6000000.0	A secluded farm is struck by a strange meteorite which has apocalyptic consequences for the family living there and possibly the world.	6.2	a secluded farm is struck by a strange meteorite which has apocalyptic consequences for the family living there and possibly the world.	secluded farm struck strange meteorite apocalyptic consequences family living possibly world.	p
3	Invasion	129.0	1.580000e+07	14800000.0	Earth is visited by an alien species that threatens humanity's existence. Events unfold in real time through the eyes of five ordinary people across the globe as they struggle to make sense of the chaos	6.0	earth is visited by an alien species that threatens humanity's existence. events unfold in real time through the eyes of five ordinary people across the globe as they struggle to make sense of the chaos	earth visited alien species threatens humanity's existence. events unfold real time eyes five ordinary people across globe struggle make sense chaos unraveling around them.	ch

					unraveling around them.		unraveling around them.		
4	The Invisible Man	124.0	1.445000e+08	7000000.0	When Cecilia's abusive ex takes his own life and leaves her his fortune, she suspects his death was a hoax. As a series of coincidences turn lethal, Cecilia works to prove that she is being hunted by someone nobody can see.	7.1	when cecilia's abusive ex takes his own life and leaves her his fortune, she suspects his death was a hoax. as a series of coincidences turn lethal, cecilia works to prove that she is being hunted by someone nobody can see.	cecilia's abusive ex takes life leaves fortune, suspects death hoax. series coincidences turn lethal, cecilia works prove hunted someone nobody see.	at : :
5	Jiu Jitsu	102.0	9.992400e+04	25000000.0	Every six years, an ancient order of jiu-jitsu fighters joins forces to battle a vicious race of alien invaders. But when a celebrated war hero goes down in defeat, the fate of the planet and mankind hangs in the balance.	2.9	every six years, an ancient order of jiu-jitsu fighters joins forces to battle a vicious race of alien invaders. but when a celebrated war hero goes down in defeat, the fate of the planet and mankind hangs in the balance.	every six years, ancient order jiu-jitsu fighters joins forces battle vicious race alien invaders. celebrated war hero goes defeat, fate planet mankind hangs balance.	[ , ji p h.
6	The Midnight Sky	118.0	3.000000e+06	100000000.0	This post-apocalyptic tale follows Augustine, a lonely scientist in the Arctic, as he races to stop Sully and her fellow astronauts from returning home to a mysterious global catastrophe.	5.6	this post-apocalyptic tale follows augustine, a lonely scientist in the arctic, as he races to stop sully and her fellow astronauts from returning home to a mysterious global catastrophe.	post-apocalyptic tale follows augustine, lonely scientist arctic, races stop sully fellow astronauts returning home mysterious global catastrophe.	[p st n
7	The New Mutants	94.0	4.920000e+07	67000000.0	Five young mutants, just discovering their abilities	5.3	five young mutants, just discovering their abilities	five young mutants, discovering abilities held secret facility will, fight escape	

					while held in a secret facility against their will, fight to escape their past sins and save themselves.		while held in a secret facility against their will, fight to escape their past sins and save themselves.	past sins save themselves.	es sa
8	Skylines	110.0	1.705810e+05	26000000.0	When a virus threatens to turn the now earth-dwelling friendly alien hybrids against humans, Captain Rose Corley must lead a team of elite mercenaries on a mission to the alien world in order to save what's left of humanity.	4.7	when a virus threatens to turn the now earth-dwelling friendly alien hybrids against humans, captain rose corley must lead a team of elite mercenaries on a mission to the alien world in order to save what's left of humanity.	virus threatens turn earth-dwelling friendly alien hybrids humans, captain rose corley must lead team elite mercenaries mission alien world order save what's left humanity.	[ dv co sa
9	Sonic the Hedgehog	99.0	3.200000e+08	85000000.0	After discovering a small, blue, fast hedgehog, a small-town police officer must help him defeat an evil genius who wants to do experiments on him.	6.5	after discovering a small, blue, fast hedgehog, a small-town police officer must help him defeat an evil genius who wants to do experiments on him.	discovering small, blue, fast hedgehog, small-town police officer must help defeat evil genius wants experiments him.	fa ex
10	Sputnik	113.0	3.540230e+05	2600000.0	The lone survivor of an enigmatic spaceship incident hasn't returned home alone - hiding inside his body is a dangerous creature.	6.4	the lone survivor of an enigmatic spaceship incident hasn't returned home alone - hiding inside his body is a dangerous creature.	lone survivor enigmatic spaceship incident returned home alone - hiding inside body dangerous creature.	i
11	Tenet	150.0	3.653000e+08	200000000.0	Armed with only one word, Tenet, and fighting for the survival of the entire world, a Protagonist	7.3	armed with only one word, tenet, and fighting for the survival of the entire world, a protagonist	armed one word, tenet, fighting survival entire world, protagonist journeys twilight world international espionage mission	fi jo

					journeys through a twilight world of international espionage on a mission that will unfold in something beyond real time.	journeys through a twilight world of international espionage on a mission that will unfold in something beyond real time.	unfold something beyond real time.	
12	Chaos Walking	109.0	2.710000e+07	100000000.0	Two unlikely companions embark on a perilous adventure through the badlands of an unexplored planet as they try to escape a dangerous and disorienting reality where all thoughts are seen and heard by everyone.	5.7 two unlikely companions embark on a perilous adventure through the badlands of an unexplored planet as they try to escape a dangerous and disorienting reality where all thoughts are seen and heard by everyone.	two unlikely companions embark perilous adventure badlands unexplored planet try escape dangerous disorienting reality thoughts seen heard everyone.	ei r
13	Don't Look Up	138.0	7.918630e+05	75000000.0	Two low-level astronomers must go on a giant media tour to warn humankind of an approaching comet that will destroy planet Earth.	7.2 two low-level astronomers must go on a giant media tour to warn humankind of an approaching comet that will destroy planet earth.	two low-level astronomers must go giant media tour warn humankind approaching comet destroy planet earth.	mi
14	Dune	156.0	4.018000e+08	165000000.0	A noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes troubled by visions of a dark future.	8.0 a noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes troubled by visions of a dark future.	noble family becomes embroiled war control galaxy's valuable asset heir becomes troubled visions dark future.	cc tr
15	The Forever Purge	103.0	7.700000e+07	18000000.0	All the rules are broken as a sect of lawless marauders decides that the annual Purge does not stop at	5.4 all the rules are broken as a sect of lawless marauders decides that the annual purge does not stop at	rules broken sect lawless marauders decides annual purge stop daybreak instead never end.	

					daybreak and instead should never end.		daybreak and instead should never end.		
16	Ghostbusters: Afterlife	124.0	2.044000e+08	75000000.0	When a single mom and her two kids arrive in a small town, they begin to discover their connection to the original Ghostbusters and the secret legacy their grandfather left behind.	7.1	when a single mom and her two kids arrive in a small town, they begin to discover their connection to the original ghostbusters and the secret legacy their grandfather left behind.	single mom two kids arrive small town, begin discover connection original ghostbusters secret legacy grandfather left behind.	1999
17	Godzilla vs. Kong	113.0	4.701000e+08	155000000.0	The epic next chapter in the cinematic Monsterverse pits two of the greatest icons in motion picture history against each other--the fearsome Godzilla and the mighty Kong--with humanity caught in the balance.	6.3	the epic next chapter in the cinematic monsterverse pits two of the greatest icons in motion picture history against each other--the fearsome godzilla and the mighty kong--with humanity caught in the balance.	epic next chapter cinematic monsterverse pits two greatest icons motion picture history other--the fearsome godzilla mighty kong--with humanity caught balance.	2020
18	The Matrix Resurrections	148.0	1.573000e+08	190000000.0	Return to a world of two realities: one, everyday life; the other, what lies behind it. To find out if his reality is a construct, to truly know himself, Mr. Anderson will have to choose to follow the white rabbit once more.	5.7	return to a world of two realities: one, everyday life; the other, what lies behind it. to find out if his reality is a construct, to truly know himself, mr. anderson will have to choose to follow the white rabbit once more.	return world two realities: one, everyday life; other, lies behind it. find reality construct, truly know himself, mr. anderson choose follow white rabbit more.	2021
19	Reminiscence	116.0	1.640000e+07	54000000.0	Nick Bannister, a private investigator of the mind, navigates the alluring world	5.9	nick bannister, a private investigator of the mind, navigates the alluring world	nick bannister, private investigator mind, navigates alluring world past life changed new client mae. simple case becomes	2021

					of the past when his life is changed by new client Mae. A simple case becomes an obsession after she disappears and he fights to learn the truth about...		of the past when his life is changed by new client mae. a simple case becomes an obsession after she disappears and he fights to learn the truth about...	obsession disappears fights learn truth about...	
20	Spider-Man: No Way Home	148.0	1.916000e+09	200000000.0	With Spider-Man's identity now revealed, Peter asks Doctor Strange for help. When a spell goes wrong, dangerous foes from other worlds start to appear, forcing Peter to discover what it truly means to be Spider-Man.	8.3	with spider-man's identity now revealed, peter asks doctor strange for help. when a spell goes wrong, dangerous foes from other worlds start to appear, forcing peter to discover what it truly means to be spider-man.	spider-man's identity revealed, peter asks doctor strange help. spell goes wrong, dangerous foes worlds start appear, forcing peter discover truly means spider-man.	id c aj
21	The Suicide Squad	132.0	1.687000e+08	185000000.0	Supervillains Harley Quinn, Bloodsport, Peacemaker, and a collection of nutty cons at Belle Reve prison join the supers-ecret, super-shady Task Force X as they are dropped off at the remote, enemy-infused island of Corto Maltese.	7.2	supervillains harley quinn, bloodsport, peacemaker, and a collection of nutty cons at belle reve prison join the supers-ecret, super-shady task force x as they are dropped off at the remote, enemy-infused island of corto maltese.	supervillains harley quinn, bloodsport, peacemaker, collection nutty cons belle reve prison join supers-ecret, super-shady task force x dropped remote, enemy-infused island corto maltese.	c c su fo re c
22	The Tomorrow War	138.0	1.920000e+07	200000000.0	A family man is drafted to fight in a future war where the fate of humanity relies on his ability to confront the past.	6.5	a family man is drafted to fight in a future war where the fate of humanity relies on his ability to confront the past.	family man drafted fight future war fate humanity relies ability confront past.	f h a
23	Venom: Let	97.0	5.069000e+08	110000000.0	Eddie Brock	5.9	eddie brock	eddie brock	

	There Be Carnage				attempts to reignite his career by interviewing serial killer Cletus Kasady, who becomes the host of the symbiote Carnage and escapes prison after a failed execution.		attempts to reignite his career by interviewing serial killer cletus kasady, who becomes the host of the symbiote carnage and escapes prison after a failed execution.	attempts reignite career interviewing serial killer cletus kasady, becomes host symbiote carnage escapes prison failed execution.	ca
24	Voyagers	108.0	4.200000e+06	29000000.0	A crew of astronauts on a multi- generational mission descend into paranoia and madness, not knowing what is real or not.	5.4	a crew of astronauts on a multi- generational mission descend into paranoia and madness, not knowing what is real or not.	crew astronauts multi-generational mission descend paranoia madness, knowing real not.	[c m

## 4.1.1 Construct the word\_count function to find length of movie plot descriptions

```
In [25]: def wordCounter(inputWord):
    if isinstance(inputWord, str):
        words = inputWord.split()
        return len(words)
wordCounter("hello world")

# apply word_count function to count words of plots and assign into new column named "num_words"
df_clean["num_words"] = df_clean['plot'].apply(wordCounter).copy()

df_clean
```

```
Out[25]:
```

	title	Running time (int)	Box office (float)	Budget (float)	plot	imdb	lowercase	without_stopwords	to
0	Bill & Ted Face the Music	91.0	6.300000e+06	25000000.0	Once told they'd save the universe during a time-traveling adventure, 2 would-be rockers from San Dimas, California find themselves as middle-aged dads still trying to crank out a hit song and	5.9	once told they'd save the universe during a time-traveling adventure, 2 would-be rockers from san dimas, california find themselves as middle-aged dads still trying to crank out a hit song and	told they'd save universe time- traveling adventure, 2 would-be rockers san dimas, california find middle-aged dads still trying crank hit song fulfill destiny.	d

					fulfill their destiny.		fulfill their destiny.		
1	Bloodshot	109.0	3.730000e+07	45000000.0	Ray Garrison, a slain soldier, is re-animated with superpowers.	5.7	ray garrison, a slain soldier, is re-animated with superpowers.	ray garrison, slain soldier, re-animated superpowers.	sl
2	Color Out of Space	111.0	1.000000e+06	6000000.0	A secluded farm is struck by a strange meteorite which has apocalyptic consequences for the family living there and possibly the world.	6.2	a secluded farm is struck by a strange meteorite which has apocalyptic consequences for the family living there and possibly the world.	secluded farm struck strange meteorite apocalyptic consequences family living possibly world.	p
3	Invasion	129.0	1.580000e+07	14800000.0	Earth is visited by an alien species that threatens humanity's existence. Events unfold in real time through the eyes of five ordinary people across the globe as they struggle to make sense of the chaos unraveling around them.	6.0	earth is visited by an alien species that threatens humanity's existence. events unfold in real time through the eyes of five ordinary people across the globe as they struggle to make sense of the chaos unraveling around them.	earth visited alien species threatens humanity's existence. events unfold real time eyes five ordinary people across globe struggle make sense chaos unraveling around them.	ch
4	The Invisible Man	124.0	1.445000e+08	7000000.0	When Cecilia's abusive ex takes his own life and leaves her his fortune, she suspects his death was a hoax. As a series of coincidences turn lethal, Cecilia works to prove that she is being hunted by someone nobody can see.	7.1	when cecilia's abusive ex takes his own life and leaves her his fortune, she suspects his death was a hoax. as a series of coincidences turn lethal, cecilia works to prove that she is being hunted by someone nobody can see.	cecilia's abusive ex takes life leaves fortune, suspects death hoax. series coincidences turn lethal, cecilia works prove hunted someone nobody see.	at
5	Jiu Jitsu	102.0	9.992400e+04	25000000.0	Every six years, an ancient order of jiu-jitsu	2.9	every six years, an ancient order of jiu-jitsu	every six years, ancient order jiu-jitsu fighters joins forces battle vicious	[ , ji



					fighters joins forces to battle a vicious race of alien invaders. But when a celebrated war hero goes down in defeat, the fate of the planet and mankind hangs in the balance.		fighters joins forces to battle a vicious race of alien invaders. but when a celebrated war hero goes down in defeat, the fate of the planet and mankind hangs in the balance.	race alien invaders. celebrated war hero goes defeat, fate planet mankind hangs balance.	
--	--	--	--	--	--	--	--	--	--

					This post-apocalyptic tale follows Augustine, a lonely scientist in the Arctic, as he races to stop Sully and her fellow astronauts from returning home to a mysterious global catastrophe.		this post-apocalyptic tale follows augustine, a lonely scientist in the arctic, as he races to stop sully and her fellow astronauts from returning home to a mysterious global catastrophe.		
6	The Midnight Sky	118.0	3.000000e+06	100000000.0		5.6		post-apocalyptic tale follows augustine, lonely scientist arctic, races stop sully fellow astronauts returning home mysterious global catastrophe.	st r

7	The New Mutants	94.0	4.920000e+07	67000000.0	Five young mutants, just discovering their abilities while held in a secret facility against their will, fight to escape their past sins and save themselves.	5.3	five young mutants, just discovering their abilities while held in a secret facility against their will, fight to escape their past sins and save themselves.	five young mutants, discovering abilities held secret facility will, fight escape past sins save themselves.	es sc
---	-----------------	------	--------------	------------	---	-----	---	--	----------

8	Skylines	110.0	1.705810e+05	26000000.0	When a virus threatens to turn the now earth-dwelling friendly alien hybrids against humans, Captain Rose Corley must lead a team of elite mercenaries on a mission to the alien world in order	4.7	when a virus threatens to turn the now earth-dwelling friendly alien hybrids against humans, captain rose corley must lead a team of elite mercenaries on a mission to the alien world in order	virus threatens turn earth-dwelling friendly alien hybrids humans, captain rose corley must lead team elite mercenaries mission alien world order save what's left humanity.	[ dv co sa
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					to save what's left of humanity.		to save what's left of humanity.		
9	Sonic the Hedgehog	99.0	3.200000e+08	85000000.0	After discovering a small, blue, fast hedgehog, a small-town police officer must help him defeat an evil genius who wants to do experiments on him.	6.5	after discovering a small, blue, fast hedgehog, a small-town police officer must help him defeat an evil genius who wants to do experiments on him.	discovering small, blue, fast hedgehog, small-town police officer must help defeat evil genius wants experiments him.	fe ex
10	Sputnik	113.0	3.540230e+05	2600000.0	The lone survivor of an enigmatic spaceship incident hasn't returned home alone - hiding inside his body is a dangerous creature.	6.4	the lone survivor of an enigmatic spaceship incident hasn't returned home alone - hiding inside his body is a dangerous creature.	lone survivor enigmatic spaceship incident returned home alone - hiding inside body dangerous creature.	i
11	Tenet	150.0	3.653000e+08	200000000.0	Armed with only one word, Tenet, and fighting for the survival of the entire world, a Protagonist journeys through a twilight world of international espionage on a mission that will unfold in something beyond real time.	7.3	armed with only one word, tenet, and fighting for the survival of the entire world, a protagonist journeys through a twilight world of international espionage on a mission that will unfold in something beyond real time.	armed one word, tenet, fighting survival entire world, protagonist journeys twilight world international espionage mission unfold something beyond real time.	fi jo
12	Chaos Walking	109.0	2.710000e+07	100000000.0	Two unlikely companions embark on a perilous adventure through the badlands of an unexplored planet as they try to escape a dangerous and disorienting	5.7	two unlikely companions embark on a perilous adventure through the badlands of an unexplored planet as they try to escape a dangerous and disorienting	two unlikely companions embark perilous adventure badlands unexplored planet try escape dangerous disorienting reality thoughts seen heard everyone.	ei ri

					reality where all thoughts are seen and heard by everyone.		reality where all thoughts are seen and heard by everyone.		
13	Don't Look Up	138.0	7.918630e+05	75000000.0	Two low-level astronomers must go on a giant media tour to warn humankind of an approaching comet that will destroy planet Earth.	7.2	two low-level astronomers must go on a giant media tour to warn humankind of an approaching comet that will destroy planet earth.	two low-level astronomers must go giant media tour warn humankind approaching comet destroy planet earth.	mi
14	Dune	156.0	4.018000e+08	165000000.0	A noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes troubled by visions of a dark future.	8.0	a noble family becomes embroiled in a war for control over the galaxy's most valuable asset while its heir becomes troubled by visions of a dark future.	noble family becomes embroiled war control galaxy's valuable asset heir becomes troubled visions dark future.	cc tr
15	The Forever Purge	103.0	7.700000e+07	18000000.0	All the rules are broken as a sect of lawless marauders decides that the annual Purge does not stop at daybreak and instead should never end.	5.4	all the rules are broken as a sect of lawless marauders decides that the annual purge does not stop at daybreak and instead should never end.	rules broken sect lawless marauders decides annual purge stop daybreak instead never end.	
16	Ghostbusters: Afterlife	124.0	2.044000e+08	75000000.0	When a single mom and her two kids arrive in a small town, they begin to discover their connection to the original Ghostbusters and the secret legacy their grandfather left behind.	7.1	when a single mom and her two kids arrive in a small town, they begin to discover their connection to the original ghostbusters and the secret legacy their grandfather left behind.	single mom two kids arrive small town, begin discover connection original ghostbusters secret legacy grandfather left behind.	1 g
17	Godzilla vs. Kong	113.0	4.701000e+08	155000000.0	The epic next chapter in the cinematic Monsterverse pits two of	6.3	the epic next chapter in the cinematic monsterverse pits two of	epic next chapter cinematic monsterverse pits two greatest icons motion picture	

					the greatest icons in motion picture history against each other--the fearsome Godzilla and the mighty Kong--with humanity caught in the balance.		the greatest icons in motion picture history against each other--the fearsome godzilla and the mighty kong--with humanity caught in the balance.	history other--the fearsome godzilla mighty kong--with humanity caught balance.	h c hu
18	The Matrix Resurrections	148.0	1.573000e+08	190000000.0	Return to a world of two realities: one, everyday life; the other, what lies behind it. To find out if his reality is a construct, to truly know himself, Mr. Anderson will have to choose to follow the white rabbit once more.	5.7	return to a world of two realities: one, everyday life; the other, what lies behind it. to find out if his reality is a construct, to truly know himself, mr. anderson will have to choose to follow the white rabbit once more.	return world two realities: one, everyday life; other, lies behind it. find reality construct, truly know himself, mr. anderson choose follow white rabbit more.	, lif t re
19	Reminiscence	116.0	1.640000e+07	54000000.0	Nick Bannister, a private investigator of the mind, navigates the alluring world of the past when his life is changed by new client Mae. A simple case becomes an obsession after she disappears and he fights to learn the truth about...	5.9	nick bannister, a private investigator of the mind, navigates the alluring world of the past when his life is changed by new client mae. a simple case becomes an obsession after she disappears and he fights to learn the truth about...	nick bannister, private investigator mind, navigates alluring world past life changed new client mae. simple case becomes obsession disappears fights learn truth about...	[r m
20	Spider-Man: No Way Home	148.0	1.916000e+09	200000000.0	With Spider-Man's identity now revealed, Peter asks Doctor Strange for help. When a spell goes wrong, dangerous foes from other worlds	8.3	with spider-man's identity now revealed, peter asks doctor strange for help. when a spell goes wrong, dangerous foes from other worlds	spider-man's identity revealed, peter asks doctor strange help. spell goes wrong, dangerous foes worlds start appear, forcing peter discover truly means spider-man.	id c a

					start to appear, forcing Peter to discover what it truly means to be Spider-Man.		start to appear, forcing peter to discover what it truly means to be spider-man.		
21	The Suicide Squad	132.0	1.687000e+08	185000000.0	Supervillains Harley Quinn, Bloodsport, Peacemaker, and a collection of nutty cons at Belle Reve prison join the super-secret, super-shady Task Force X as they are dropped off at the remote, enemy-infused island of Corto Maltese.	7.2	supervillains harley quinn, bloodsport, peacemaker, and a collection of nutty cons at belle reve prison join the super-secret, super-shady task force x as they are dropped off at the remote, enemy-infused island of corto maltese.	supervillains harley quinn, bloodsport, peacemaker, collection nutty cons belle reve prison join super-secret, super-shady task force x dropped remote, enemy-infused island corto maltese.	c c su fo re c
22	The Tomorrow War	138.0	1.920000e+07	200000000.0	A family man is drafted to fight in a future war where the fate of humanity relies on his ability to confront the past.	6.5	a family man is drafted to fight in a future war where the fate of humanity relies on his ability to confront the past.	family man drafted fight future war fate humanity relies ability confront past.	f h a
23	Venom: Let There Be Carnage	97.0	5.069000e+08	110000000.0	Eddie Brock attempts to reignite his career by interviewing serial killer Cletus Kasady, who becomes the host of the symbiote Carnage and escapes prison after a failed execution.	5.9	eddie brock attempts to reignite his career by interviewing serial killer cletus kasady, who becomes the host of the symbiote carnage and escapes prison after a failed execution.	eddie brock attempts reignite career interviewing serial killer cletus kasady, becomes host symbiote carnage escapes prison failed execution.	, ca
24	Voyagers	108.0	4.200000e+06	29000000.0	A crew of astronauts on a multi-generational mission descend into paranoia and madness, not	5.4	a crew of astronauts on a multi-generational mission descend into paranoia and madness, not	crew astronauts multi-generational mission descend paranoia madness, knowing real not.	[c m

## 4.1.2 Make lemmatized words into single list and apply Counter to most appeared words

```
In [26]: newdf = df_clean

import itertools

#convert the lemmatized word column to a single list
lemmaWord = newdf.lemmatized_words.to_list()

#connect the list of lists
lemmaWordAll = (list(itertools.chain.from_iterable(lemmaWord)))

#use the Counter function on list of words
cnt = Counter(lemmaWordAll)

#use most_common function to find most repeated words
print(dict(cnt.most_common(20)))

#make list to a dictionary so we have key value pair of word : value repeated
common_words = dict(cnt.most_common(20))

#this is for word cloud analysis(for more common words)
common_words1 = dict(cnt.most_common(50))

{'world': 7, 'two': 5, 'alien': 4, 'humanity': 4, 'becomes': 4, 'save': 3, 'family': 3,
'real': 3, 'life': 3, 'war': 3, 'go': 3, 'planet': 3, 'fight': 3, 'escape': 3, 'past':
3, 'must': 3, 'mission': 3, 'dangerous': 3, 'reality': 3, 'adventure': 2}
```

## 4.2 Identify common words in movie plot

### Import matplotlib library to draw plots

```
In [27]: import matplotlib.pyplot as plt
```

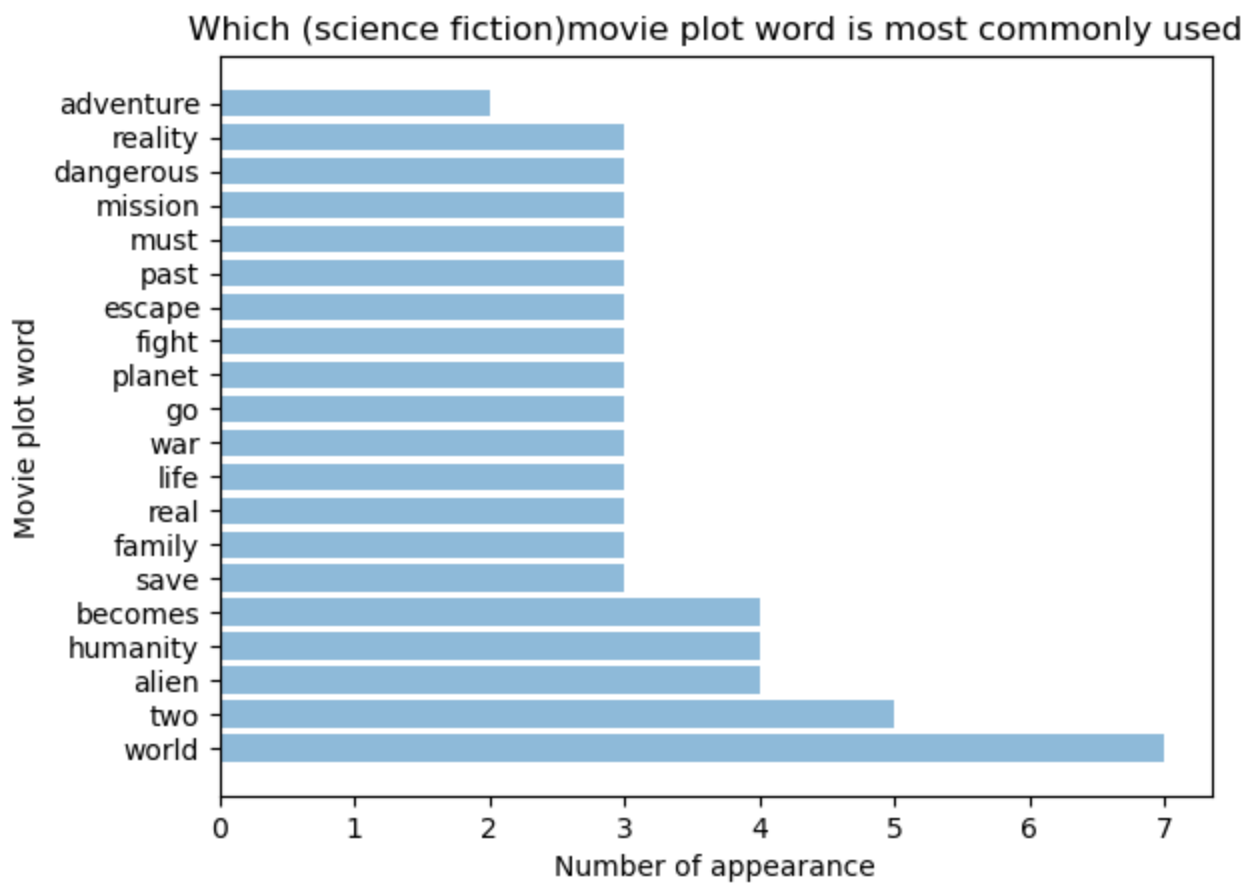
### 4.2.1 Create horizontal plot showing common words in science fiction movie plot

```
In [28]: #assign the y axis words
keys = common_words.keys()

#assign the x axis values
values = common_words.values()

y=list(keys)
x=list(values)
plt.barh(y, x,alpha=0.5)

plt.ylabel("Movie plot word")
plt.xlabel("Number of appearance")
plt.title("Which (science fiction)movie plot word is most commonly used")
plt.show()
```



## 4.2.2 Create word cloud to show other common words in science fiction movie plot

Import word cloud library

```
In [29]: from wordcloud import WordCloud
```

Create wordcloud

```
In [30]: #draw wordcloud
wordcloud = WordCloud().generate_from_frequencies(common_words1)
plt.imshow(wordcloud, interpolation="bilinear")
plt.axis("off")
plt.show()
```



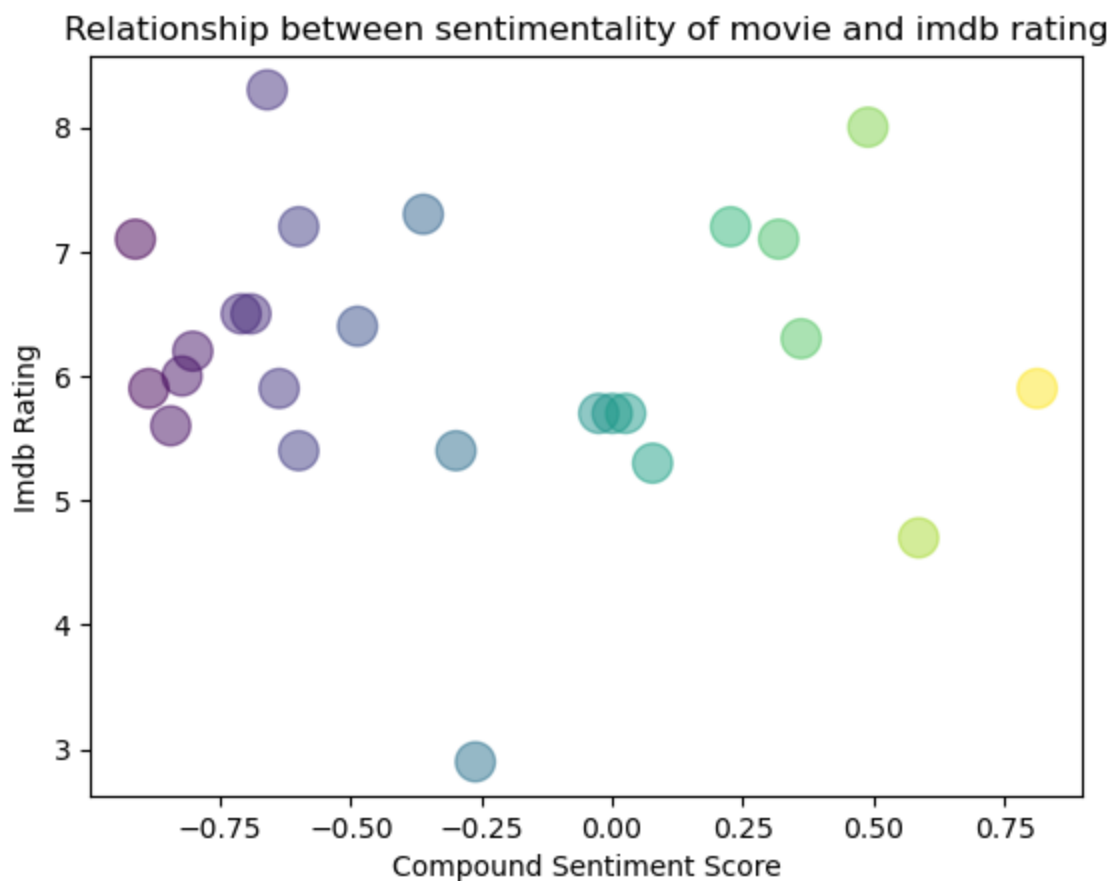


3	Invasion	Comp_Sentiment	-0.8225
4	The Invisible Man	Comp_Sentiment	-0.9118
5	Jiu Jitsu	Comp_Sentiment	-0.2617
6	The Midnight Sky	Comp_Sentiment	-0.8442
7	The New Mutants	Comp_Sentiment	0.0772
8	Skylines	Comp_Sentiment	0.5859
9	Sonic the Hedgehog	Comp_Sentiment	-0.6908
10	Sputnik	Comp_Sentiment	-0.4871
11	Tenet	Comp_Sentiment	-0.3612
12	Chaos Walking	Comp_Sentiment	-0.0258
13	Don't Look Up	Comp_Sentiment	-0.5994
14	Dune	Comp_Sentiment	0.4890
15	The Forever Purge	Comp_Sentiment	-0.2987
16	Ghostbusters: Afterlife	Comp_Sentiment	0.3182
17	Godzilla vs. Kong	Comp_Sentiment	0.3612
18	The Matrix Resurrections	Comp_Sentiment	0.0258
19	Reminiscence	Comp_Sentiment	-0.6369
20	Spider-Man: No Way Home	Comp_Sentiment	-0.6597
21	The Suicide Squad	Comp_Sentiment	0.2263
22	The Tomorrow War	Comp_Sentiment	-0.7096
23	Venom: Let There Be Carnage	Comp_Sentiment	-0.8860
24	Voyagers	Comp_Sentiment	-0.5994

## 4.3.2 Draw scatter plot to analyse if movie's sentiment affects its imdb ratings

```
In [33]: x = df_clean['Comp_Sentiment']
y = df_clean['imdb']
plt.xlabel("Compound Sentiment Score")
plt.ylabel("Imdb Rating")
plt.title("Relationship between sentimentality of movie and imdb rating")
colors = df_clean['Comp_Sentiment']

area = 200
plt.scatter(x, y, s=area, c=colors, alpha=0.5)
plt.show()
```



## Observation :

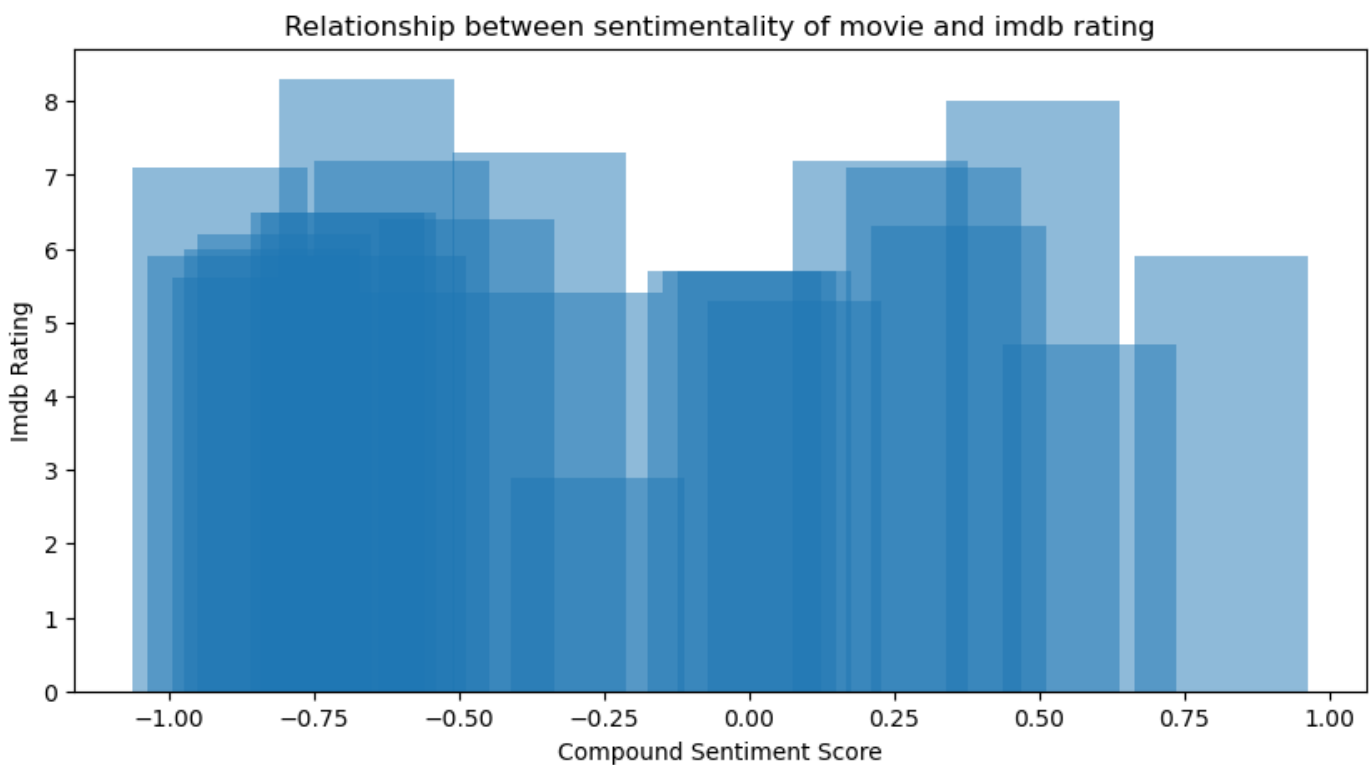
There are more negative sentiment movies(14 counts) that scores imdb rating of 5-8 than the positives movies(8 counts)

## 4.3.2 Bar plot to analyse if movie's sentiment affects its imdb ratings

```
In [34]: fig = plt.figure(figsize = (10, 5))
x = df_clean['Comp_Sentiment']
y = df_clean['imdb']

plt.bar(x,y,
        width = 0.3,alpha=0.5)

plt.xlabel("Compound Sentiment Score")
plt.ylabel("Imdb Rating")
plt.title("Relationship between sentimentality of movie and imdb rating")
plt.show()
```



## Observation:

The darker area supports claim that there are more negative sentiment movies scores imdb rating up to 6

## 4.4 Analyse if running time of movie and number of words in movie plot affects its imdb rating

### 4.4.1 Draw 3d scatter plot to show all relation

3D Graph exemplifies multiple variable relationship well as it can contain 3 axis to plot, but this downside includes overcrowding information. Hence it added color feature representing rating, the yellower the greater the rating. Also, the greater the size of ellipse meaning greater plot length

```
In [35]: #we use matplotlib notebook to rotate graph
# %matplotlib notebook
from mpl_toolkits.mplot3d import Axes3D

fig = plt.figure()
ax = fig.add_subplot(111, projection='3d')

X = df_clean['Running time (int)']
Y = df_clean['num_words']
Z = df_clean['imdb']

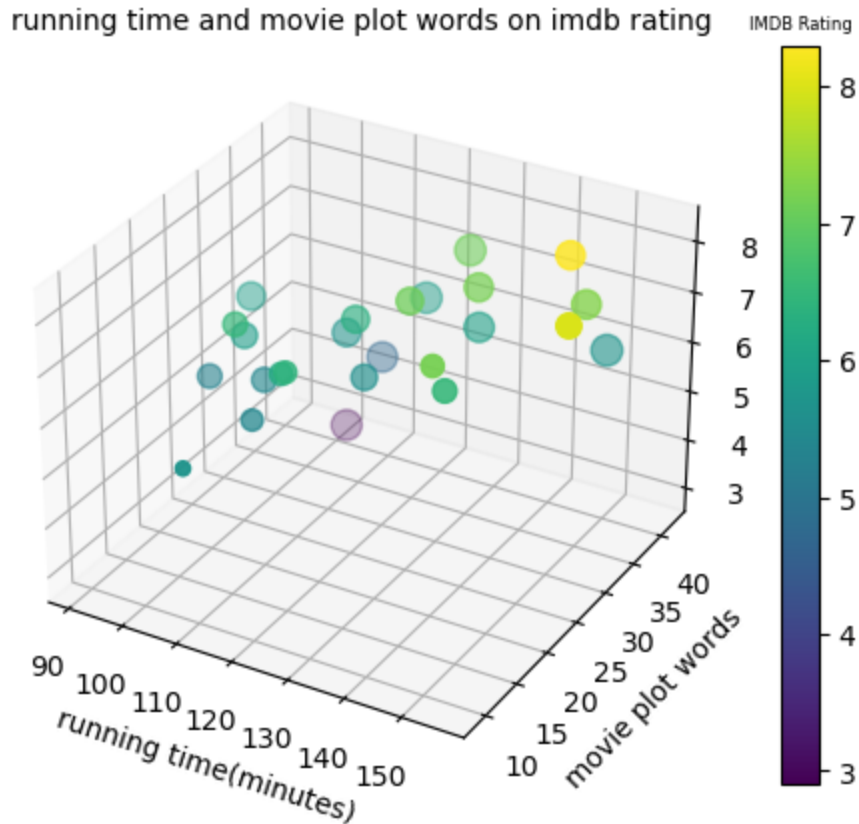
fg = ax.scatter3D(X, Y, Z, s=df_clean['num_words']*3, c=df_clean['imdb'])

ax.set_xlabel('running time(minutes)')
ax.set_ylabel('movie plot words')
ax.set_zlabel('imdb rating')
```

```

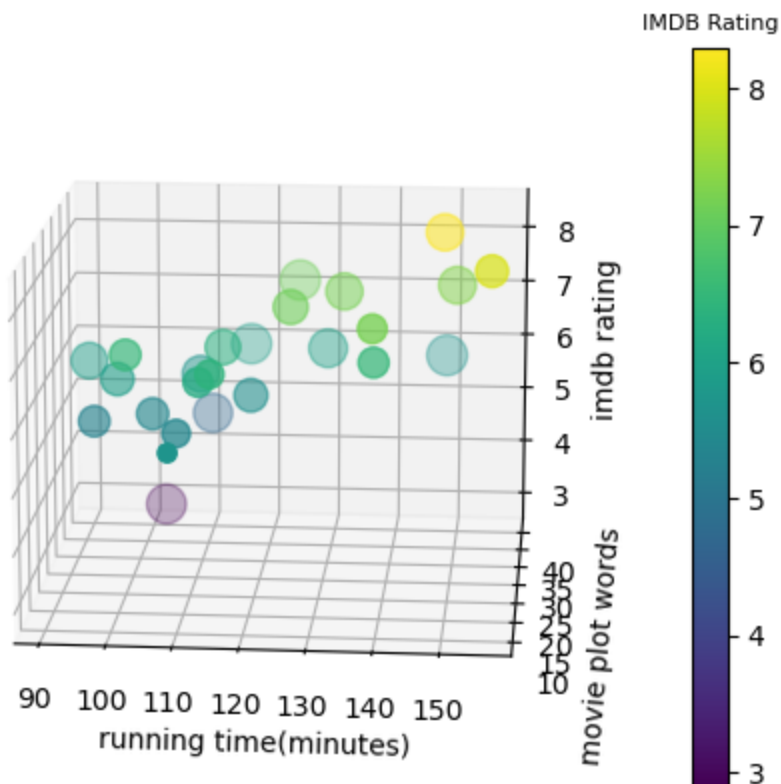
clb=plt.colorbar(fg)
#set the colorbar title
clb.ax.set_title('IMDB Rating',fontsize=6)
plt.title("running time and movie plot words on imdb rating",fontsize=10)
plt.show()

```



**Observation 1 : we can see as running time increase,rating increases**

the longer the movie plays the better of its rating as evidence shows linear uprise



Observation 2 : we also see that movie plot with average amount of word(in the middle gathered) produce high rating



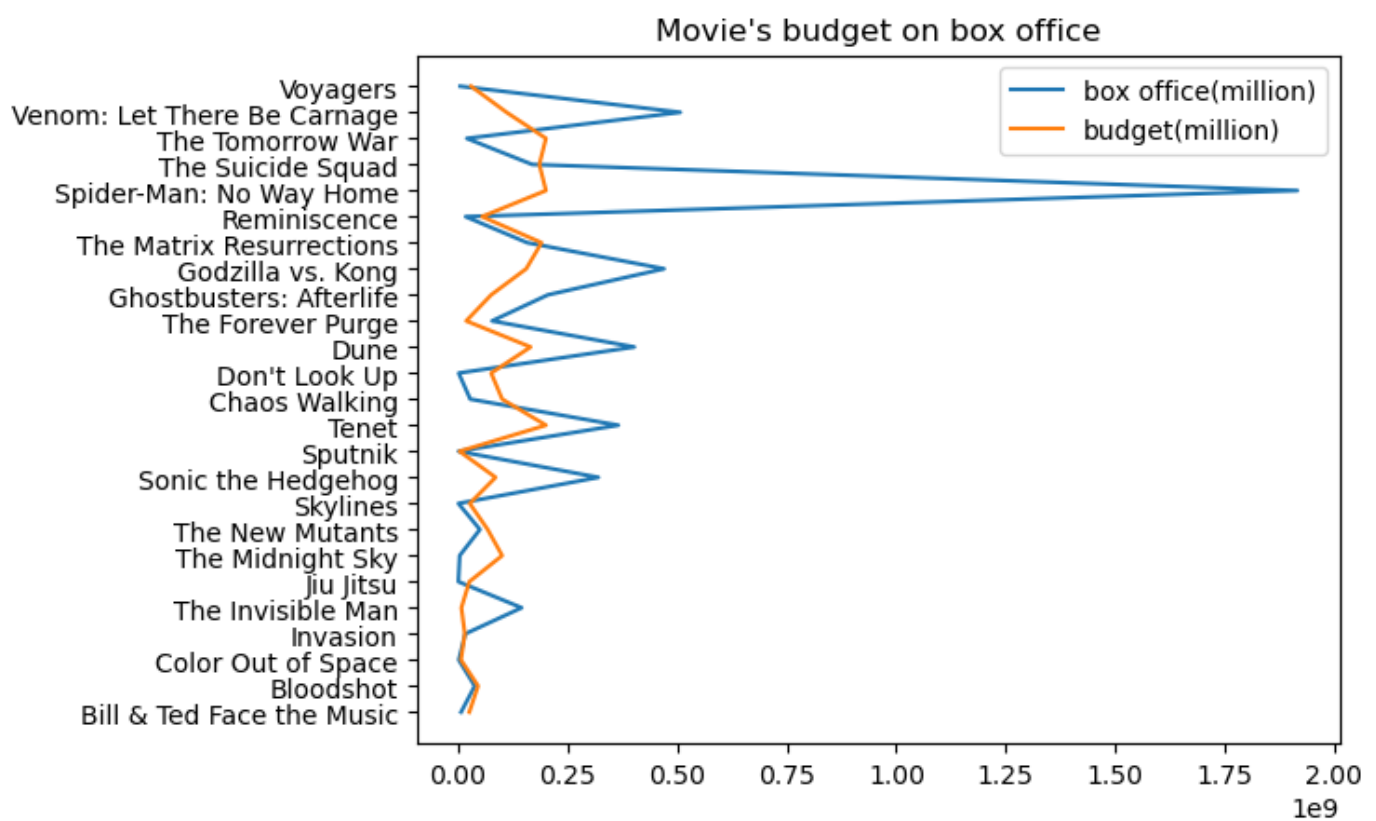
This means it is important to have average plots to make movie interesting,a overly or under described movie plot does not really contribute to its rating

## 4.5 Analyse if budget affects box office revenue?

### 4.5.1 create a 2 overlapping line plot to show this relationship

```
In [36]: %matplotlib inline
x=df_clean['Box office (float)']
y=df_clean['title']
z=df_clean['Budget (float)']

line1=plt.plot(x,y)
line2=plt.plot(z,y)
plt.title("Movie's budget on box office")
plt.legend(["box office(million)", "budget(million)"])
plt.show()
```



## Observation :

Generally, spikes in budget also spikes in revenue, however some movies with high budget still only produce low revenues

## 4.5.2 create dot plot to show the relationship of budget and revenue

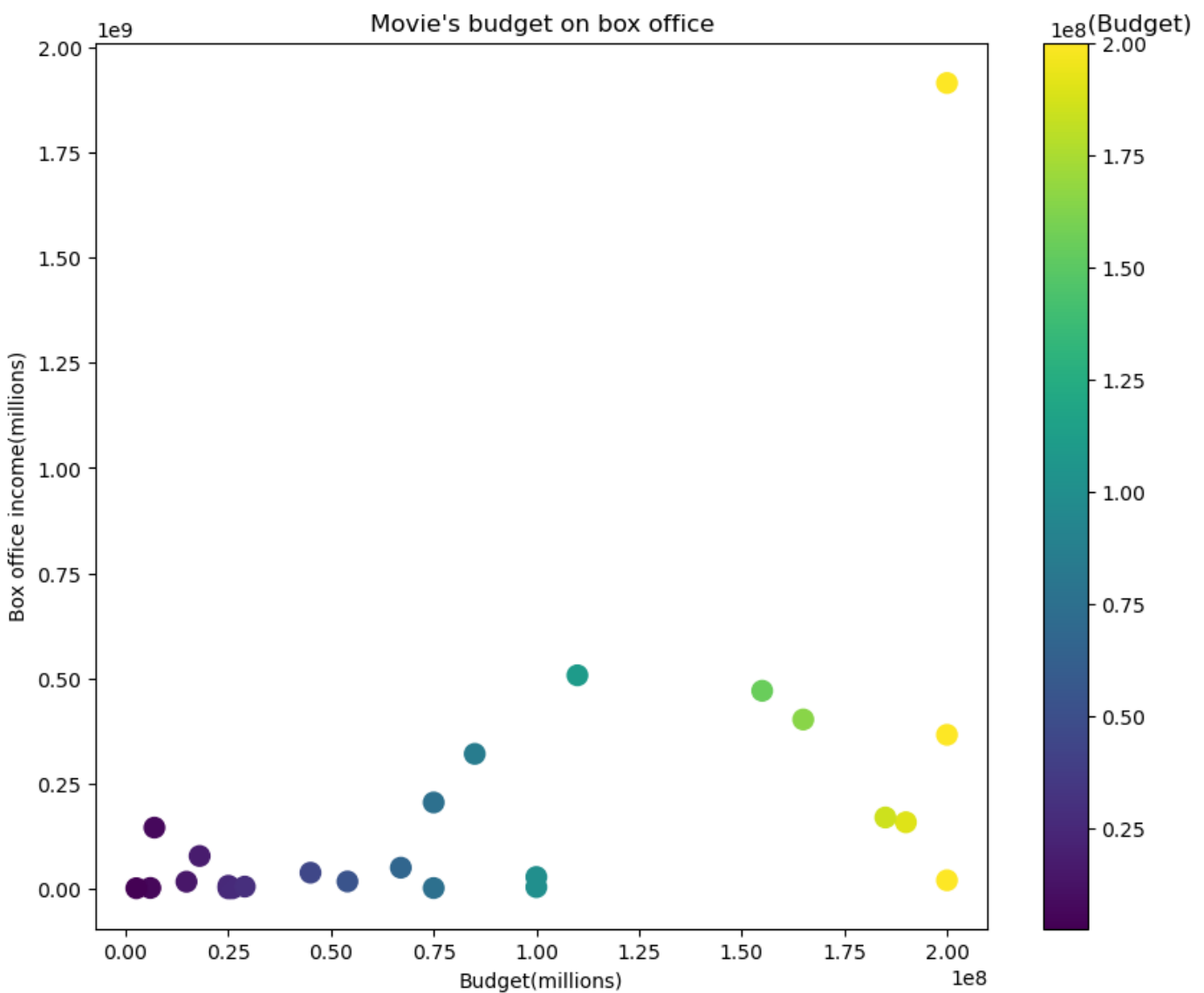
```
In [37]: plt.gcf().set_size_inches(10,8 )
x = df_clean['Budget (float)']
y = df_clean['Box office (float)']
plt.xlabel("Budget(millions)")
plt.ylabel("Box office income(millions)")

colors = df_clean['Budget (float)']

area = 100

fg = plt.scatter(x, y, s=area, c=colors)

# create color bar to show budget size
clb = plt.colorbar(fg)
clb.ax.set_title('')
clb.ax.set_title(' (Budget)',horizontalalignment='left')
plt.title("Movie's budget on box office")
plt.show()
```



**Observation :** Many low budget movie has low revenues,they cannot surpass 0.25 y-mark ,some with moderate budget can generate high revenue(hitting 0.5 y-mark) also

**conclusion :** the higher the budget the better the box office,they could score more above 0.25 y-mark

## 5.0 Summary

### 5.1 Conclusion

From the completed analysis,we are able to draw perspective of how common words,sentiment of movie plot,budget,running time,box office,imdb rating determines an outstanding movie. This includes:

- Breakdowned common words used in science fiction movie plots,popular terms including world,alien,humanity,mission,planet,war
- negative sentiment of movie plot results better movie rating,meaning movie should emphasize on some negative elements.
- the moderate and higher of budget produce better movie revenue

- longer running time and average movie plot words statistically promote better ratings

The data relationship established in this project can bring further exploration and deeper aspect of research.

Flaws within project is that with only one machine learning tool is not enough. To improve the project, more sentiment analysis tools such as TextBlob/Spacy/Gensim should be implemented so we can compare the difference of each outcome from different tools.

## 6.0 Reference and resources

### Webscraping

- Beautiful soup documentation (<https://www.crummy.com/software/BeautifulSoup/bs4/doc/>)
- Webscraping lecture and lab by author Dr Sean McGrath
- Webscraping and APIs by Llewelyn Fernandes (week 10)
- Data collected from wikipedia ([https://en.wikipedia.org/wiki/List\\_of\\_science\\_fiction\\_films\\_of\\_the\\_2020s](https://en.wikipedia.org/wiki/List_of_science_fiction_films_of_the_2020s))
- Scraping Wikipedia with Python ([https://medium.com/@Alexander\\_H/scraping-wikipedia-with-python-8000fc9c9e6c](https://medium.com/@Alexander_H/scraping-wikipedia-with-python-8000fc9c9e6c))
- Web scraping with Beautiful Soup (<https://www.youtube.com/@KeithGalli>)
- Is scraping data from Wikipedia legal? (<https://www.quora.com/Is-scraping-data-from-Wikipedia-legal>)
- Wikipedia:FAQ/Article subjects ([https://en.wikipedia.org/wiki/Wikipedia:FAQ/Article\\_subjects](https://en.wikipedia.org/wiki/Wikipedia:FAQ/Article_subjects))

### Data cleansing

- Natural Language toolkit documentation (<https://www.nltk.org/>)
- Python | Lemmatization with NLTK (<https://www.geeksforgeeks.org/python-lemmatization-with-nltk>)
- Python – Itertools.chain()(<https://www.geeksforgeeks.org/python-itertools-chain>)
- Python RegEx w3([https://www.w3schools.com/python/python\\_regex.asp](https://www.w3schools.com/python/python_regex.asp))
- Convert argument to a numeric type in pandas ([https://pandas.pydata.org/docs/reference/api/pandas.to\\_numeric.html](https://pandas.pydata.org/docs/reference/api/pandas.to_numeric.html))

### Exploratory data analysis

- Journalistic Voice Report (week 10)
- Itertools.chain.from\_iterable() ([https://www.geeksforgeeks.org/python-itertools-chain-from\\_iterable](https://www.geeksforgeeks.org/python-itertools-chain-from_iterable))
- Python Counter in Collections with Example (<https://www.guru99.com/python-counter-collections-example.html>)
- 3D Plotting in Matplotlib for Python: 3D Scatter Plot (<https://youtu.be/6ljHxJQ47Uk>)
- Bar Plot in Matplotlib (<https://www.geeksforgeeks.org/bar-plot-in-matplotlib>)
- Top label for Matplotlib colorbars (<https://www.tutorialspoint.com/top-label-for-matplotlib-colorbars>)



- Resource used: vader sentiment in Journalistic Voice: exploring the differences between the writing styles of political editors for four UK news sites (sample work from week 10)
- Guest lecture with Llewelyn Fernandes - Data Plotting

In [38]: `#pip freeze >> requirements.txt`