Phase 4 Project:

Movie Recommendation System

Student Name : Brian O'Donnell

Pace: Flex

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Instructor Name: Abhineet Kulkarni

Overview

This project uses the data made available by the 'MovieLens' dataset, which contains 4 CSV files where information such as movie titles, ratings and users are stored. The goal of this project is to create a recommendation system for a new online movie streaming company. We will import the CSV files, inspect and clean the data, perform EDA and then build our models.

Business Understanding

Our stakeholder,"Nu-Stream", is a new start-up company who are attempting to build their own movie streaming service. I have been tasked with creating a recommendation system based off a collection of user movie reviews. Another aspect that will need to be addresses is how to recommend movies for a new user, something that is often called the 'cold-start' problem. I believe after the completion of the models our stakeholder will be able to properly suggest appropriate movies to their customers.

Data Understanding

The 'MovieLens' dataset is provided by the GroupLens research lab at the university of Minnesota. This is a well documented dataset that contains everything from movie titles and ID's, user ID's and ratings, and movie genres. It is a great asset to companies in our position and should have the information we need to build our models. The method we will be using to achieve our goals is known as User-Based Collaborative Filtering. In which the system predicst the movies that a user might like on the basis of ratings given to that movie by the other users who have similar taste with that of the target user,

To begin, we will start by importing the needed libraries and files that will be used in this project. ***

```
import csv
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from collections import defaultdict
from surprise import Dataset
from surprise import Reader
from surprise import accuracy
from surprise.model_selection import train_test_split
```

```
from surprise.model selection import cross validate
from surprise.model selection import GridSearchCV
from surprise.model selection import KFold
from surprise import NormalPredictor
from surprise import NormalPredictor
from surprise import BaselineOnly
from surprise import KNNBasic
from surprise import KNNWithMeans
from surprise import KNNBaseline, KNNWithZScore
from surprise import SVD
from surprise import SVDpp
from surprise import NMF
from surprise import SlopeOne
from surprise import CoClustering
%matplotlib inline
movies =
pd.read csv('/Users/natashawyatt/Documents/Flatiron school/Phase 4/
Phase 4 Project/ml-latest-small/movies.csv')
ratings =
pd.read csv('/Users/natashawyatt/Documents/Flatiron school/Phase 4/
Phase 4 Project/ml-latest-small/ratings.csv')
links =
pd.read csv('/Users/natashawyatt/Documents/Flatiron school/Phase 4/
Phase 4 Project/ml-latest-small/links.csv')
tags =
pd.read csv('/Users/natashawyatt/Documents/Flatiron school/Phase 4/
Phase 4 Project/ml-latest-small/tags.csv')
```

The four files made available by MovieLens are:

- Movies.csv
- Ratings.csv

1

- Links.csv
- Tags.csv

0

We will take a look, one by one, to see what each contains and what is needed for our project. This will also lead to the cleaning phase of the project where we process the data to make it useable for our models.

Toy Story (1995)

```
2
                                  Jumanji (1995)
1
2
         3
                        Grumpier Old Men (1995)
3
         4
                       Waiting to Exhale (1995)
         5
4
           Father of the Bride Part II (1995)
                                          genres
   Adventure | Animation | Children | Comedy | Fantasy
0
1
                     Adventure | Children | Fantasy
2
                                  Comedy | Romance
3
                           Comedy | Drama | Romance
4
                                          Comedy
movies.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9742 entries, 0 to 9741
Data columns (total 3 columns):
              Non-Null Count Dtype
     Column
 0
     movieId 9742 non-null
                               int64
 1
     title
              9742 non-null
                               object
 2
              9742 non-null
     genres
                               object
dtypes: int64(1), object(2)
memory usage: 228.5+ KB
```

We see the Movies file contains:

- movieId
- title

Ratings

genres

While all these columns are very important, we will most likely need some information from the other tables to get everything we need.

```
# A look at the ratings file...
ratings.head()
   userId movieId rating
                             timestamp
0
        1
                 1
                        4.0
                             964982703
                 3
1
        1
                        4.0
                             964981247
2
        1
                 6
                        4.0
                             964982224
3
        1
                47
                        5.0
                             964983815
4
        1
                50
                        5.0
                             964982931
ratings.info()
```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 100836 entries, 0 to 100835

```
Data columns (total 4 columns):
               Non-Null Count
#
    Column
                                Dtype
- - -
     -----
                -----
 0
               100836 non-null
                                int64
    userId
 1
    movieId
               100836 non-null
                                int64
 2
     rating
               100836 non-null
                                float64
 3
    timestamp
               100836 non-null
                                int64
dtypes: float64(1), int64(3)
memory usage: 3.1 MB
```

Ratings file contains:

- userId
- movieId
- rating
- timestamp

This file not only has the movieId, but the userId and their ratings as well. This is definetely something needed for our models, but it does not have the movie title, and the timestamp column probably is not of much use.

```
Tags
# A look at the tags file...
tags.head()
   userId
           movieId
                                 tag
                                       timestamp
0
             60756
                               funny
                                      1445714994
        2
             60756 Highly quotable
        2
1
                                      1445714996
2
        2
             60756
                       will ferrell
                                      1445714992
3
        2
             89774
                        Boxing story
                                      1445715207
4
        2
             89774
                                 MMA
                                      1445715200
tags.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3683 entries, 0 to 3682
Data columns (total 4 columns):
#
     Column
                Non-Null Count
                                 Dtype
- - -
 0
                3683 non-null
     userId
                                 int64
 1
     movieId
                3683 non-null
                                 int64
 2
                3683 non-null
                                 object
     tag
 3
                3683 non-null
                                 int64
     timestamp
dtypes: int64(3), object(1)
memory usage: 115.2+ KB
```

- userId
- movieId
- tag
- timestamp

The only thing this file offers that the others do not is the 'tag' which gives some characteristics of the movie, such as themes or actors.

```
Links
# A look at the links file...
links.head()
   movieId imdbId
                    tmdbId
0
        1 114709
                     862.0
1
         2 113497
                    8844.0
2
         3 113228 15602.0
3
         4 114885 31357.0
4
         5 113041 11862.0
links.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9742 entries, 0 to 9741
Data columns (total 3 columns):
#
             Non-Null Count Dtype
    Column
 0
    movieId 9742 non-null
                              int64
             9742 non-null
 1
    imdbId
                              int64
2
    tmdbId
             9734 non-null
                             float64
dtypes: float64(1), int64(2)
memory usage: 228.5 KB
```

The links file contains:

- movieId
- imdbId
- tmdbId

So this file has the corresponding ID's for movies across MovieId, IMDB and TheMoviesDB. This File will most likely not be used.

Cleaning

We now have a general idea of what the data looks like, we will start by doing a few simple cleaning steps, dropping the 'timestamp' column which has no use for us, and giving the movie year its own column.

```
# removing timestamp column from both ratings and tags as it does not help us
```

```
ratings.drop(columns='timestamp', inplace=True)
tags.drop(columns='timestamp', inplace=True)
```

Year

Now we will create a year column all to its self,and the next few cells will be dedicated to examining this information and seeing if it can be useful to us.

```
We will follow this process for the majority of columns in our tables.
# We will give year its own column...
movies['Year'] = movies['title'].str.extract('.*\((.*)\).*',expand =
False)
movies.head()
   movieId
                                               title
0
          1
                                  Toy Story (1995)
          2
1
                                     Jumanji (1995)
2
          3
                          Grumpier Old Men (1995)
3
          4
                         Waiting to Exhale (1995)
4
          5
             Father of the Bride Part II (1995)
                                              genres
                                                       Year
   Adventure | Animation | Children | Comedy | Fantasy
0
                                                       1995
                       Adventure | Children | Fantasy
1
                                                       1995
2
                                     Comedy | Romance
                                                       1995
                              Comedy | Drama | Romance
3
                                                       1995
4
                                              Comedy
                                                       1995
# Now that we have the year in its own column, lets make sure it looks
right.
movies['Year'].unique()
                           '1996',
                                                      '1967',
                                                                '1993',
                 '1994',
                                    '1976',
                                             '1992',
                                                                         '1964',
array(['1995',
        '1977'
                 1965
                           '1982'
                                    '1990'
                                             '1991'
                                                       '1989'
                                                                '1937'
                                                                         '1940'
                                                      '1959',
        '1969',
                 '1981',
                           '1973',
                                    '1970',
                                                                '1968'
                                             '1955',
                                                                         '1988'
                           '1943',
        '1997',
                 '1972',
                                             '1951',
                                                      '1957',
                                    '1952',
                                                                '1961',
                                                                         '1958'
        '1954'
                 '1934'
                           '1944'
                                    '1960'
                                             '1963'
                                                       '1942'
                                                                '1941'
                                                                         '1953'
                                                      '1947',
        '1939',
                           '1946',
                 '1950'
                                    '1945'
                                             '1938'
                                                                '1935'
                                                                         '1936'
        '1956'
                 '1949'
                           '1932'
                                    '1975'
                                             '1974'
                                                      '1971'
                                                                '1979'
                                                                         '1987'
        '1986'
                 '1980',
                           '1978',
                                    '1985'
                                             '1966'
                                                      '1962'
                                                                '1983'
                                                                         '1984'
        '1948',
                 '1933'
                           '1931'
                                    '1922'
                                             '1998'
                                                      '1929'
                                                                '1930'
                                                                         '1927'
        '1928',
                 '1999'
                           '2000'
                                    '1926'
                                             '1919'
                                                       '1921'
                                                                ' 1925 '
                                                                         '1923'
                 '2002',
                                    '1920',
        '2001',
                           '2003'
                                             '1915'
                                                      '1924'
                                                                '2004'
                                                                         '1916'.
        '1917',
                 '2005',
                                            nan, '1903', '2007', '2008',
                           '2006'
                                    '1902',
                                             '2013', '2014', '2015', '2016',
        '2009',
                           '2011'
                                    '2012',
                 '2010',
        '2017',
                 '2018',
                           '1908',
                                    '2006-2007'], dtype=object)
```

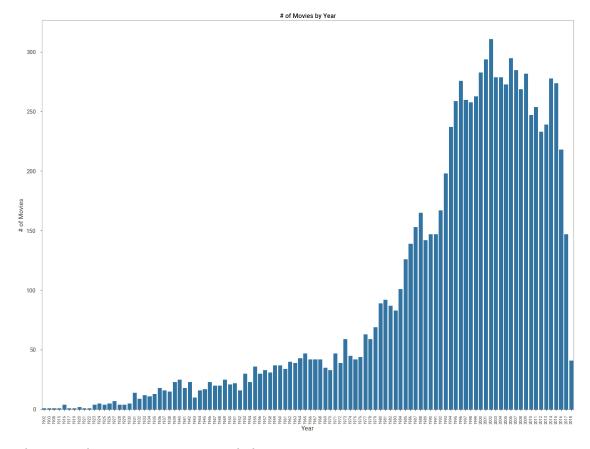
Another important cleaning step is to make sure there are no missing values, or Nan, which stands for 'Not a number'. We will check the year column for these and how we address the them depends on just how many Nan's there are.

movies[pd.isna(movies['Year'])]

```
movieId
                                                               title
6059
        40697
                                                          Babylon 5
9031
                                                   Ready Player One
       140956
9091
       143410
                                                         Hyena Road
9138
       147250
               The Adventures of Sherlock Holmes and Doctor W...
9179
       149334
                                                  Nocturnal Animals
9259
       156605
                                                           Paterson
9367
       162414
                                                          Moonlight
9448
       167570
                                                             The OA
9514
       171495
                                                             Cosmos
9515
       171631
                                           Maria Bamford: Old Baby
9525
       171891
                                                  Generation Iron 2
9611
       176601
                                                       Black Mirror
                       genres Year
6059
                       Sci-Fi
                               NaN
9031
      Action|Sci-Fi|Thriller
                               NaN
9091
          (no genres listed)
                               NaN
9138
          (no genres listed)
                               NaN
9179
              Drama|Thriller
                               NaN
9259
          (no genres listed)
                               NaN
9367
                        Drama
                               NaN
9448
          (no genres listed)
                               NaN
9514
          (no genres listed)
                               NaN
9515
          (no genres listed)
                               NaN
```

```
9525
          (no genres listed)
                               NaN
9611
          (no genres listed)
                               NaN
# These will just be dropped since there are so few of them...
movies = movies.dropna(subset=['Year'],how='any')
movies['Year'].describe()
          9730
count
unique
           106
top
          2002
freq
           311
Name: Year, dtype: object
movies['Year'].value_counts()
2002
        311
2006
        295
2001
        294
2007
        285
2000
        283
1922
          1
1917
          1
1902
          1
1921
          1
1908
          1
Name: Year, Length: 106, dtype: int64
# Looking at the year column to see the disribution..
year count = movies.groupby('Year').count()['title'].reset index()
year count.head(10)
   Year title
  1902
1
  1903
             1
2
             1
  1908
3
  1915
             1
4
             4
  1916
5
             1
  1917
6
             1
  1919
7
             2
  1920
8
  1921
             1
             1
  1922
movies['Year'].describe()
          9730
count
unique
           106
          2002
top
           311
freq
Name: Year, dtype: object
```

```
year_count.describe()
            title
count 106.000000
       91.792453
mean
std
       102.245709
         1.000000
min
25%
        16.000000
50%
        39.500000
       151.500000
75%
       311.000000
max
#plot the years - lineplot
with plt.style.context('seaborn-poster'):
    fig, ax = plt.subplots(figsize=(24,18))
    sns.barplot(x='Year',
                 y = 'title',
                 data=year count,
                 color='tab:blue');
    plt.xlabel("Year", fontsize=16)
    plt.ylabel("# of Movies", fontsize=16)
    plt.title("# of Movies by Year",fontsize=16)
    plt.xticks(fontsize=10, rotation=90)
    plt.yticks(fontsize=14)
    ax.grid(False)
    plt.show()
    plt.savefig('years_plot.png')
```



<Figure size 921.6x633.6 with 0 Axes>

Year Findings

After some minor cleaning our 'Year' column looks useable. We see that there are a total of 106 different years in which a movie was released inside this dataframe, beginning with 1902 ending sometime in 2018. By the steep drop off we can assume it is somewhat early 2018 that they stopped adding movies, so it may not be completely up to date with current trends.

Before moving onto the next column there is another issue that we will address now.

Similar to Nan's, something else that needs to be addressed in order to make clean models is duplicates, which we will check for now...

```
# Check for duplicates in movieId
print((not movies["movieId"].is_unique))
# Check for duplicates in title
print((not movies["title"].is_unique))
False
True
movies[movies.duplicated(["title"], keep=False)]
```

```
movieId
                                                  title \
650
          838
                                            Emma (1996)
                                        Saturn 3 (1980)
2141
         2851
4169
         6003
               Confessions of a Dangerous Mind (2002)
5601
        26958
                                            Emma (1996)
5854
        32600
                                            Eros (2004)
5931
        34048
                              War of the Worlds (2005)
6932
        64997
                              War of the Worlds (2005)
9106
       144606
               Confessions of a Dangerous Mind (2002)
9135
       147002
                                            Eros (2004)
9468
       168358
                                        Saturn 3 (1980)
                                    genres
                                             Year
650
                      Comedy | Drama | Romance
                                             1996
2141
                Adventure|Sci-Fi|Thriller
                                             1980
4169
              Comedy|Crime|Drama|Thriller
                                             2002
5601
                                   Romance
                                             1996
5854
                                     Drama
                                             2004
5931
         Action|Adventure|Sci-Fi|Thriller
                                             2005
6932
                             Action|Sci-Fi
                                             2005
      Comedy|Crime|Drama|Romance|Thriller
9106
                                             2002
9135
                             Drama | Romance
                                             2004
9468
                           Sci-Fi|Thriller
                                             1980
```

So after staring at this for a few minutes I see that there are 5 movies that are duplicates:

- Emma
- Saturn 3
- · Confessions of a Dangerour Mind
- Eros
- War of the Worlds Obviously the titles are the same, but different movieId, we will
 replace one Id with the other for each duplicate, and then make sure it changes
 across all the files.

```
movie_id_change = {838:26958, 2851:168358,
6003:144606,32600:147002,34048:64997}
movies['movieId'].replace(movie_id_change,inplace=True)
movies = movies.drop_duplicates(subset=["movieId","title"])

ratings['movieId'].replace(movie_id_change,inplace=True)
tags['movieId'].replace(movie_id_change,inplace=True)
links['movieId'].replace(movie_id_change,inplace=True)

# Validation check
print('Is there a duplicate value in a column movieId? Ans:',not
movies["movieId"].is_unique)
print('Is there a duplicate value in a column title? Ans:',not
movies["title"].is unique)
```

```
Is there a duplicate value in a column movieId? Ans: False Is there a duplicate value in a column title? Ans: False
```

Genres

The genre column needs some work, we will need to preprocess and separate the genres to be able to work with them. Also earlier I noticed a lot of missing values in the genre column, Ill attempt to fix that now.

```
movies['genres']
0
        Adventure | Animation | Children | Comedy | Fantasy
1
                          Adventure | Children | Fantasy
2
                                       Comedy | Romance
3
                                Comedy | Drama | Romance
4
                                               Comedy
9737
                     Action|Animation|Comedy|Fantasy
9738
                            Animation | Comedy | Fantasy
9739
                                                Drama
9740
                                    Action|Animation
9741
                                               Comedy
Name: genres, Length: 9725, dtype: object
movies['genres'] = movies['genres'].replace('(no genres listed)',
np.nan)
print('Number of missing values in genres
column:',movies['genres'].isna().sum())
Number of missing values in genres column: 26
movies = movies.dropna(subset=['genres'],how='any')
movies = movies.reset index(drop=True)
print('Number of missing values in genres
column:',movies['genres'].isna().sum())
Number of missing values in genres column: 0
```

So the 26 missing genres has been addressed, we will now use the process of One-Hot-Encoding to create a binary column for each genre.

Next we will:

- Visualize the genres
- Extract the genres and encode them using binary to be able to use them in models. import pandas as pd

```
# Extract the genre information for each movie
genres = [genre.split('|') for genre in movies['genres']]
# Create a dictionary that maps each genre to a count of the number of
movies in that genre
genre counts = {}
for genre list in genres:
    for genre in genre list:
        if genre in genre counts:
            genre counts[genre] += 1
        else:
            genre counts[genre] = 1
# Sort the genres by their count, in descending order
sorted genres = sorted(genre counts.items(), key=lambda x: x[1],
reverse=True)
#Print the genres and their counts
for genre, count in sorted genres:
    print(f'{genre}: {count} movies')
Drama: 4357 movies
Comedy: 3755 movies
Thriller: 1890 movies
Action: 1826 movies
Romance: 1593 movies
Adventure: 1263 movies
Crime: 1198 movies
Horror: 978 movies
Sci-Fi: 976 movies
Fantasy: 779 movies
Children: 664 movies
Animation: 611 movies
Mystery: 573 movies
Documentary: 440 movies
War: 382 movies
Musical: 334 movies
Western: 167 movies
IMAX: 158 movies
Film-Noir: 87 movies
len(genres)
for x in genres:
    movies[x] = 0
for i in range(len(movies.genres)):
    for x in movies.genres[i].split('|'):
        movies[x][i]=1
#dropping the genres column as it's a no longer required
```

```
movies.drop(columns='genres', inplace=True)
movies.sort_index(inplace=True)
movies
```

<ipython-input-731-358e6ae71e80>:6: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation:

. . .

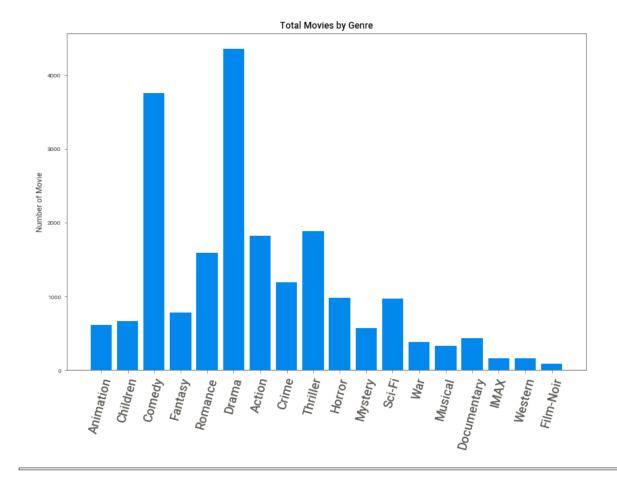
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#
returning-a-view-versus-a-copy
 movies[x][i]=1

Advent	movieId							tit	le Y	⁄ear
0 1	1					Toy	Story	(199	5) 1	1995
1 1 1	2					Jı	umanji	(199	5) 1	1995
2	3			(Grump:	ier 01	ld Men	(199	5) 1	1995
3	4			Wa	aitino	g to E	Exhale	(199	5) 1	L995
4 0	5		Fathe	er of th	ne Bri	ide Pa	art II	(199	5) 1	1995
9694 0	193581	Black	Butle	r: Book	of th	ne Atl	lantic	(201	7) 2	2017
9695 0	193583			No Gan	ne No	Life	Zero	(201	7) 2	2017
9696 0	193585						Flint	(201	7) 2	2017
9697 0	193587		Bungo	Stray [ogs:	Dead	Apple	(2018	8) 2	2018
9698 0	193609		Andrev	v Dice (Clay:	Dice	Rules	(199	1) 1	1991
Thrill	Animatio er \	n Chi	ldren	Comedy	Fant	tasy	Romano	ce D	rama	
0	•	1	1	1		1		0	0	
1 0		Θ	1	0		1		0	0	
2		0	0	1		0		1	0	
3		0	0	1		0		1	1	
4 0		0	0	1		0		0	0	

9694		1	0	1	1	0	0	
0 9695		1	0	1	1	0	0	
9696		0	0	0	0	0	1	
0 9697		1	0	0	0	0	0	
0 9698 0		0	0	1	Θ	0	0	
./ + .	Horror	Mystery	Sci-Fi	War	Musical	Documentary	IMAX	
Weste 0	rn \ 0	0	0	0	Θ	0	0	
0 1	0	Θ	0	0	0	0	0	
0 2	0	Θ	0	0	Θ	0	0	
0 3 0	0	Θ	0	0	Θ	0	0	
0 4 0	Θ	0	0	0	0	0	0	
9694 0	Θ	0	0	0	0	0	0	
9695	0	0	0	0	0	Θ	0	
0 9696	0	Θ	0	0	Θ	0	0	
0 9697	0	0	0	0	Θ	0	0	
0 9698 0	0	Θ	0	0	0	0	0	
0	Film-No							
0		0						

	Film-Noir
0	0
1	0
2	0
3	0
4	0
9694	0
9695	0
9696	0
9697	0
9698	0

```
[9699 rows x 22 columns]
# plotting genres popularity
x = \{\}
for i in movies.columns[4:23]:
    x[i] = movies[i].sum()
    print(f"{i:<15}{x[i]:>10}")
plt.figure(figsize=(12,8))
plt.bar(height = x.values(), x=x.keys())
plt.xticks(rotation=75, ha='center', fontsize = 16)
plt.ylabel('Number of Movie')
plt.title('Total Movies by Genre')
plt.savefig('genre.png')
plt.show()
Animation
                      611
Children
                      664
Comedy
                      3755
                      779
Fantasy
Romance
                      1593
Drama
                     4357
Action
                      1826
Crime
                      1198
Thriller
                      1890
Horror
                      978
Mystery
                       573
Sci-Fi
                      976
War
                      382
                      334
Musical
                      440
Documentary
IMAX
                       158
Western
                       167
Film-Noir
                       87
```

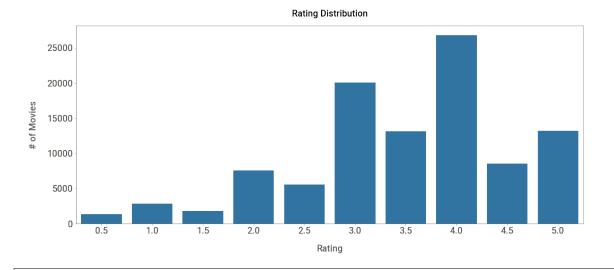


Ratings

We will now try to find out what each movies average rating is and more importantly, how many ratings each movie has. If a movie has only 2 reviews but they are both 5 stars then that could create an imbalance in the model output, we want to make sure the movies have a minimum amount of ratings.

```
#Finding out the average rating per movie and more importantly how
many ratings they have...
avg rating =
ratings.groupby('movieId').rating.mean().rename('avg rating')
num rating =
ratings.groupby('movieId').userId.count().rename('num rating')
print(avg_rating.head())
print(num_rating.head())
movieId
     3.920930
1
2
     3.431818
3
     3.259615
4
     2.357143
5
     3.071429
```

```
Name: avg rating, dtype: float64
movieId
1
     215
2
     110
3
      52
4
      7
5
      49
Name: num rating, dtype: int64
avg_rating.describe()
count
         9719,000000
            3.262388
mean
std
            0.870004
            0.500000
min
25%
            2.800000
50%
            3.416667
            3.910357
75%
            5.000000
max
Name: avg_rating, dtype: float64
# plot number of ratings
fig, ax = plt.subplots(figsize=(20,8))
sns.countplot(x='rating',
              data=ratings,
              color='tab:blue');
plt.title("Rating Distribution",fontsize=20, pad=20)
plt.xlabel("Rating", fontsize=20, labelpad=20)
plt.ylabel("# of Movies", fontsize=20, labelpad=20)
plt.xticks(fontsize=20)
plt.vticks(fontsize=20)
ax.grid(False)
plt.savefig('ratings.png')
plt.show()
```



The majority of reviews look like they fall on the top half of the 0.5-5 rating spectrum. More specifically between 3.0-4.0. ***

Creating DataFrames

Now that we have looked into our files, seen the dataframes and cleaned them to our satisfaction we will begin creating some final datasets. These will be at our disposal for user-item matrices for our models.

```
# Finally time to merge tables now that it looks like most obstacles
have been cleaned up.
movies = pd.merge(movies, avg rating, how='left', on='movieId')
movies = pd.merge(movies, num rating, how='left', on='movieId')
# Also filling in any Nan's with a Zero rating or Zero votes, again
helps with modeling
movies['avg rating'].fillna(0, inplace=True)
movies['num rating'].fillna(0, inplace=True)
/opt/anaconda3/envs/learn-env/lib/python3.8/site-packages/pandas/
core/series.py:4517: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#
returning-a-view-versus-a-copy
  return super().fillna(
movies.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 9699 entries, 0 to 9698
Data columns (total 24 columns):
#
                  Non-Null Count
     Column
- - -
```

```
0
     movieId
                   9699 non-null
                                    int64
 1
     title
                   9699 non-null
                                    object
 2
                   9699 non-null
     year
                                    object
 3
                   9699 non-null
                                    int64
     Adventure
 4
     Animation
                   9699 non-null
                                    int64
 5
     Children
                   9699 non-null
                                    int64
 6
                   9699 non-null
                                    int64
     Comedy
 7
                   9699 non-null
     Fantasy
                                    int64
 8
     Romance
                   9699 non-null
                                    int64
 9
                   9699 non-null
                                    int64
     Drama
 10
    Action
                   9699 non-null
                                    int64
 11
     Crime
                  9699 non-null
                                    int64
 12
     Thriller
                   9699 non-null
                                    int64
 13
                   9699 non-null
                                    int64
     Horror
 14
     Mystery
                   9699 non-null
                                    int64
 15
     Sci-Fi
                   9699 non-null
                                    int64
 16 War
                   9699 non-null
                                    int64
 17
     Musical
                   9699 non-null
                                    int64
                  9699 non-null
 18
    Documentary
                                    int64
 19
                   9699 non-null
    IMAX
                                    int64
 20 Western
                   9699 non-null
                                    int64
 21
    Film-Noir
                   9699 non-null
                                    int64
 22
     avg rating
                   9699 non-null
                                    float64
 23
     num rating
                  9699 non-null
                                    float64
dtypes: \overline{float64(2)}, int64(20), object(2)
memory usage: 1.8+ MB
```

Final Dataframes...

We merged one dataframe after our cleaning and added some new features, and in the next few cells I will create some more. Not all of these tables will be used but I am trying to create different sets of 'User-Item' matrices that may be useful for our models.

```
# Another merge to get userId in there....
# This dataframe will have all the needed attributes, movies, users,
genres, reviews...
movie and ratings = pd.merge(ratings, movies, how='left', on =
'movieId')
movie and ratings.rename(columns={'rating_x': 'rating',
                                    'rating y': 'RatingsCount'},
                          inplace=True)
movie and ratings.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 100836 entries, 0 to 100835
Data columns (total 26 columns):
#
                  Non-Null Count
     Column
                                   Dtype
- - -
     -----
                  100836 non-null
 0
     userId
                                   int64
 1
     movieId
                  100836 non-null
                                   int64
```

```
2
     rating
                   100836 non-null
                                    float64
 3
     title
                   100781 non-null
                                    object
 4
                   100781 non-null
                                    object
     year
5
                   100781 non-null
                                    float64
     Adventure
 6
     Animation
                   100781 non-null
                                    float64
 7
     Children
                   100781 non-null
                                    float64
 8
                   100781 non-null
                                    float64
     Comedy
 9
                   100781 non-null
                                    float64
     Fantasy
 10
    Romance
                   100781 non-null
                                    float64
 11
                   100781 non-null
                                    float64
     Drama
 12
     Action
                   100781 non-null
                                    float64
 13
     Crime
                   100781 non-null
                                    float64
                   100781 non-null
 14
     Thriller
                                    float64
 15
                   100781 non-null
                                    float64
     Horror
 16
     Mystery
                   100781 non-null
                                    float64
 17
     Sci-Fi
                   100781 non-null
                                    float64
 18
    War
                   100781 non-null
                                    float64
 19
     Musical
                   100781 non-null
                                    float64
                   100781 non-null
                                    float64
 20
     Documentary
 21
                   100781 non-null
     IMAX
                                    float64
 22
    Western
                  100781 non-null
                                    float64
 23
    Film-Noir
                   100781 non-null float64
 24
     avg rating
                  100781 non-null
                                    float64
 25
     num rating
                  100781 non-null float64
dtypes: \overline{f}loat64(22), int64(2), object(2)
memory usage: 20.8+ MB
# sort by ratings counts
movie and ratings sorted = (
    movie and ratings
    .sort values(by='num rating', ascending=False)
    .drop duplicates('movieId')
movie and ratings sorted
       userId
               movieId
                         rating
                                                              title year
76283
          480
                    356
                            5.0
                                               Forrest Gump (1994)
                                                                     1994
3909
           24
                    318
                                 Shawshank Redemption, The (1994)
                            4.5
                                                                     1994
                            4.0
                                               Pulp Fiction (1994)
18412
          117
                    296
                                                                     1994
                            4.5 Silence of the Lambs, The (1991)
50481
          326
                    593
                                                                     1991
23520
                  2571
                            4.0
                                                Matrix, The (1999)
          160
                                                                     1999
. . .
          . . .
                                                                . . .
                                                                      . . .
```

88136	567	156605	4	.5			NaN	
92128	596	141131	2	.5			NaN	
92154	596	181719	3	.5			NaN	
95014	599	132084	2	.5			NaN	
95054	599	161008	2	.5			NaN	
Ad avg ratin	ventur q x \		ation	Childre	en Comedy	Fantasy		
762 8 3	9_^ 0.		0.0	0	0 1.0	0.0		
4.164134 3909	0.	0	0.0	0 .	0 0.0	0.0		
4.429022 18412	0.	0	0.0	0 .	0 1.0	0.0		
4.197068 50481	0.	0	0.0	0	0 0.0	0.0		
4.161290 23520	0.0		0.0	0	0 0.0	0.0		
4.192446								
88136	Na	N	NaN	Na	nN NaN	NaN		
NaN 92128	NaN		NaN		nN NaN	NaN		
NaN 92154	Na	N	NaN		nN NaN	NaN		
NaN 95014	Na	N	NaN	Na	nN NaN	NaN		
NaN 95054 NaN	Na	N	NaN	Na	nN NaN	NaN		
			vg_rat	ing_y r	num_rating	_y avg_ra	ting_x	
num_ratin 76283		29.0	4.1	64134	329	.0 4.	164134	
329.0 3909	3	17.0	4.4	29022	317	.0 4.	429022	
317.0 18412	3	07.0	4.1	97068	307	.0 4.	197068	
307.0 50481	2	79.0	4.1	61290	279	.0 4.	161290	
279.0 23520 278.0	2	78.0	4.1	92446	278	.0 4.	192446	

NaN

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NaN

NaN

NaN

• • •			• • •	•				
88136 NaN	NaN	NaN	NaN	I	NaN			
92128 NaN	NaN	NaN	NaN	J	NaN			
92154 NaN	NaN	NaN	NaM	J	NaN			
95014 NaN	NaN	NaN	NaM	J	NaN			
95054 NaN	NaN	NaN	NaN	J	NaN			
76283 3909 18412 50481 23520	avg_rating_y 4.164134 4.429022 4.197068 4.161290 4.192446	329.0 317.0 307.0 279.0	4.164134 4.429022 4.197068 4.161290	num_rating 329.0 317.0 307.0 279.0 278.0				
88136 92128 92154 95014 95054	 NaN NaN NaN NaN	NaN NaN NaN	NaN NaN NaN NaN	NaN NaN NaN NaN NaN				
[9719	rows x 34 col	umns]						
movie_ movie_		orted['avg_rat orted['num_rat						
core/s	eries.py:4517	/learn-env/lib : SettingWithC o be set on a	opyWarning:		•			
https: returr	See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html# returning-a-view-versus-a-copy return super().fillna(
\	userId movi	eId rating			title	year		
76283	480	356 5.0	Fo	orrest Gump	(1994)	1994		
3909	24	318 4.5 S	hawshank Reden					

Pulp Fiction (1994) 1994

18412 117

296

4.0

-			num_rating_y	avg_rating_x		
num_rating_x	\	4 164124	220.0	4 104124		
76283	329.0	4.164134	329.0	4.164134		
329.0						
3909	317.0	4.429022	317.0	4.429022		
317.0						
18412	307.0	4.197068	307.0	4.197068		

NaN

307.0 50481 279.0	279.0	4.161290	279.0	9 4.161290
23520 278.0	278.0	4.192446	278.0	9 4.192446
			• •	
88136 NaN	NaN	NaN	Naf	N NaN
92128 NaN	NaN	NaN	Naf	N NaN
92154 NaN	NaN	NaN	Naf	N NaN
95014 NaN	NaN	NaN	Naf	N NaN
95054 NaN	NaN	NaN	Nal	N NaN
76283 3909 18412 50481 23520	avg_rating_y 4.164134 4.429022 4.197068 4.161290 4.192446	num_rating_y 329.0 317.0 307.0 279.0 278.0	avg_rating 4.164134 4.429022 4.197068 4.161290 4.192446	num_rating 329.0 317.0 307.0 279.0 278.0
88136 92128 92154 95014 95054	NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN	NaN NaN NaN NaN NaN

[9719 rows x 34 columns]

Number of Reviews

So an issue we have to address is the fact that some movies may have a 5 star rating, but only have a handful of reviews. We want those movies to have less influence than movies with several reviews otherwise the model may create poor recommendations of movies that have few reviews.

```
# Setting a minimum number of reviews
minimum_num_ratings = 100
movie_and_ratings=movie_and_ratings[movie_and_ratings['num_rating']>mi
nimum_num_ratings].sort_values(by=['avg_rating'], ascending=False)

# merging ratings and movies data
matrix_df = pd.merge(ratings, movies, how='left', on = 'movieId')
# creating matrix
movie user matrix = matrix df.pivot table(index='userId',
```

```
columns='title', values='avg_rating')
movie_user_matrix
         '71 (2014) 'Hellboy': The Seeds of Creation (2004) \
title
userId
1
                NaN
                                                              NaN
2
                NaN
                                                              NaN
3
                NaN
                                                              NaN
4
                NaN
                                                              NaN
5
                NaN
                                                              NaN
                . . .
                                                              . . .
                NaN
606
                                                              NaN
607
                NaN
                                                              NaN
608
                NaN
                                                              NaN
609
                NaN
                                                              NaN
610
                4.0
                                                              NaN
title
         'Round Midnight (1986) 'Salem's Lot (2004) \
userId
1
                              NaN
                                                     NaN
2
                              NaN
                                                     NaN
3
                              NaN
                                                     NaN
4
                              NaN
                                                     NaN
5
                              NaN
                                                     NaN
                              . . .
                                                     . . .
606
                             NaN
                                                     NaN
607
                              NaN
                                                     NaN
608
                              NaN
                                                     NaN
609
                              NaN
                                                     NaN
610
                              NaN
                                                     NaN
title
         'Til There Was You (1997) 'Tis the Season for Love (2015) \
userId
1
                                 NaN
                                                                      NaN
2
                                 NaN
                                                                      NaN
3
                                 NaN
                                                                      NaN
4
                                 NaN
                                                                      NaN
5
                                 NaN
                                                                      NaN
. . .
                                 . . .
                                                                      . . .
606
                                 NaN
                                                                      NaN
607
                                 NaN
                                                                      NaN
608
                                 NaN
                                                                      NaN
609
                                 NaN
                                                                      NaN
610
                                 NaN
                                                                      NaN
         'burbs, The (1989) 'night Mother (1986) (500) Days of Summer
title
(2009)
userId
1
                                                 NaN
                         NaN
```

NaN 2 NaN 3 NaN 4 NaN 5 NaN 606 NaN 607 NaN 608 NaN 609 NaN 610 3.66666	7	NaN NaN NaN NaN NaN NaN NaN NaN NaN		NaN NaN NaN NaN NaN NaN NaN NaN NaN	
title \ userId	*batteries not	included	(1987)	 Zulu (2013)	[REC] (2007)
1			NaN	 NaN	NaN
2			NaN	 NaN	NaN
3			NaN	 NaN	NaN
4			NaN	 NaN	NaN
5			NaN	 NaN	NaN
606			NaN	 NaN	NaN
607			NaN	 NaN	NaN
608			NaN	 NaN	NaN
609			NaN	 NaN	NaN
610			NaN	 NaN	4.0625

```
[REC]^{2} (2009) [REC]^{3} 3 Génesis (2012) \
title
userId
1
                    NaN
                                                NaN
2
                    NaN
                                                NaN
3
                    NaN
                                                NaN
4
                    NaN
                                                NaN
5
                    NaN
                                                NaN
. . .
                                                . . .
606
                    NaN
                                                NaN
607
                    NaN
                                                NaN
608
                    NaN
                                                NaN
609
                    NaN
                                                NaN
610
              3.666667
                                                3.0
         anohana: The Flower We Saw That Day - The Movie (2013) \
title
userId
1
                                                            NaN
2
                                                            NaN
3
                                                            NaN
4
                                                            NaN
5
                                                            NaN
. . .
                                                            . . .
606
                                                            NaN
607
                                                            NaN
608
                                                            NaN
609
                                                            NaN
610
                                                            NaN
title
         eXistenZ (1999) xXx (2002) xXx: State of the Union (2005) \
userId
1
                      NaN
                                   NaN
                                                                       NaN
2
                      NaN
                                   NaN
                                                                       NaN
3
                      NaN
                                   NaN
                                                                       NaN
4
                      NaN
                                   NaN
                                                                       NaN
5
                      NaN
                                   NaN
                                                                       NaN
                                   NaN
606
                      NaN
                                                                       NaN
607
                      NaN
                                   NaN
                                                                       NaN
608
                3.863636
                              2.770833
                                                                       NaN
609
                      NaN
                                   NaN
                                                                       NaN
610
                      NaN
                              2.770833
                                                                       2.0
         ¡Three Amigos! (1986) À nous la liberté (Freedom for Us)
title
(1931)
userId
                       3.134615
1
NaN
2
                             NaN
NaN
```

```
3
                           NaN
NaN
                           NaN
NaN
                           NaN
NaN
                            . . .
606
                           NaN
NaN
607
                           NaN
NaN
608
                           NaN
NaN
609
                           NaN
NaN
610
                           NaN
NaN
[610 rows x 9681 columns]
movie user matrix.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 610 entries, 1 to 610
Columns: 9681 entries, '71 (2014) to À nous la liberté (Freedom for
Us) (1931)
dtypes: float64(9681)
memory usage: 45.1 MB
```

Colloborative Filtering with User-Item Matrix

These last tables represent our user-item matrices. This is used in our recommendation system to represent the interactions between users and items, where each row is a userId and each column is an item, which in our case is a movie.

The reason there are some Nan's is becasue obviously not every user has seen much less rated every movie.

First Models

To begin, in the context of the Surprise library, the 'build_full_trainset' function is used to create a Trainset object from a Dataset object. A Trainset object is a special type of dataset object that is used to train a recommendation model in the Surprise library. It contains the ratings data, as well as additional information such as the indices of the users and items, the rating scale, and the number of ratings. And from the Trainset we can create the Testset and therefore are able to train the model and make predictions in the user-item matrix.

```
# read in values as Surprise dataset
reader = Reader(rating scale=(0,5))
data = Dataset.load_from_df(movie_and_ratings[['userId', 'title',
'rating']],
    reader)
#generating a trainset
trainset = data.build full trainset()
testset = trainset.build anti testset()
print('Number of users: ', dataset.n_users,)
print('Number of items: ', dataset.n_items)
                            , dataset.n_items)
print('Number of ratings: ',dataset.n ratings)
Number of users:
                    610
Number of items:
                    2121
Number of ratings: 79640
```

SVD

Singular value decomposition (SVD) is a matrix factorization technique that can be used to decompose a matrix into its constituent parts. In the context of recommendation systems, SVD can be used to decompose a user-item matrix into the product of three matrices: a user matrix, a diagonal matrix of singular values, and an item matrix. These matrices can then be used to make recommendations to users.

```
#Instantiate the SVD model
svd = SVD()
# Returning 5 cross-validated iterations
cv svd = cross validate(SVD(), data, cv=5, n jobs=5, verbose=True)
Evaluating RMSE, MAE of algorithm SVD on 5 split(s).
                 Fold 1 Fold 2 Fold 3 Fold 4 Fold 5 Mean
                                                               Std
RMSE (testset)
                 0.8474 0.8441 0.8495 0.8491 0.8573
                                                        0.8495
0.0044
MAE (testset)
                 0.6495 0.6486
                                0.6511 0.6499 0.6568
                                                        0.6512
0.0029
Fit time
                 3.47
                         3.46
                                3.39
                                        3.54
                                                3.41
                                                        3.45
                                                               0.05
Test time
                 0.08
                         0.09
                                0.08
                                        0.08
                                                0.09
                                                        0.08
                                                               0.01
```

SVD Grid Search

We ran 5 iterations of the SVD algo and got decent returns for our metrics, at least to start with. We will now run a grid search in an attempt to find the best parameter for the SVD algorithm to get our error scores even lower while trying to avoid overfitting.

```
# From lesson *
# Perform a gridsearch with SVD
# @ This cell may take several minutes to run
params = {'n factors': [20, 50, 100],
           'n epochs': [5,10],
          'lr_all':[0.002, 0.005],
         'reg all': [0.02, 0.1, 0.5]}
g s svd = GridSearchCV(SVD,param grid=params,n jobs=-1)
g s svd.fit(data)
# n factors = latent/underlying factors-higher can improve but also
overfit
# n epochs = iterations, higher can learn more but also overfit
print(g s svd.best score)
print(g s svd.best params)
{'rmse': 0.8527852887315772, 'mae': 0.6549498875244633}
{'rmse': {'n_factors': 20, 'n_epochs': 10, 'lr_all': 0.005, 'reg_all': 0.02}, 'mae': {'n_factors': 20, 'n_epochs': 10, 'lr_all': 0.005,
'reg_all': 0.02}}
# FINAL SVD MODEL
# This cell takes longer to run because the parameters are even more
specific, but does yield lower errors..
#Prarameter space
# run time approximately 10 min
svd_param_grid = {'n_epochs': [20, 25, 30, 40, 50],
                   'lr all': [0.007, 0.009, 0.01, 0.02],
                   'reg all': [0.02, 0.04, 0.1, 0.2]}
# This will take some time to execute.
gs svd = GridSearchCV(SVD, svd param grid, measures=['rmse', 'mae'],
cv=5, n iobs=5)
gs svd.fit(data)
print('Best value for SVD -RMSE:', round(gs svd.best score['rmse'],
4), '; MAE:', round(gs svd.best score['mae'], 4))
print('Optimal params RMSE =', gs svd.best params['rmse'])
print('optimal params MAE =', gs svd.best params['mae'])
Best value for SVD -RMSE: 0.8228; MAE: 0.63
Optimal params RMSE = {'n_epochs': 50, 'lr_all': 0.01, 'reg_all': 0.1}
optimal params MAE = {'n_epochs': 50, 'lr_all': 0.01, 'reg_all': 0.1}
```

Final SVD Model:

Final RMSE is a respectable 0.82, which we can look at as the average predicted rating being .82 stars away from the actual rating. ***

Some Information On the Metrics...

RMSE

The root mean squared error (RMSE) is a measure of the accuracy of a prediction model.

In a recommendation system, the RMSE score is calculated by taking the square root of the mean squared error between the predicted ratings and the actual ratings in the test set. The mean squared error is calculated by taking the sum of the squared differences between the predicted and actual ratings, and dividing by the number of ratings in the test set.

A lower RMSE score indicates that the model is making more accurate predictions, while a higher RMSE score indicates that the model is making less accurate predictions.

MAF

In a recommendation system, the MAE is calculated by taking the absolute value of the difference between the predicted ratings and the actual ratings in the test set, and averaging these differences over the number of ratings in the test set.

Like the root mean squared error (RMSE), the MAE is a measure of the average error of the model's predictions. However, unlike the RMSE, the MAE does not square the errors before averaging them, which means that it is less sensitive to large errors and may be more appropriate for data with a large number of outliers. And again, the lower the score the better.

KNN

In addition to using SVD, we will also run and compare some KNN algo's. In a recommendation system, KNN works by finding the K nearest neighbors of a user or item, and using these neighbors to make recommendations.

```
cv_knn_basic = cross_validate(KNNBasic(), data, cv=5, n_jobs=5,
verbose=True)
cv_knn_means = cross_validate(KNNWithMeans(), data, cv=5, n_jobs=5,
verbose=True)
cv_knn_z = cross_validate(KNNWithZScore(), data, cv=5, n_jobs=5,
verbose=True)
cv_knn_baseline = cross_validate(KNNBaseline(), data, cv=5, n_jobs=5,
verbose=True)
```

Evaluating RMSE, MAE of algorithm KNNBasic on $5 \ \text{split}(s)$.

	Fold 1	Fold 2	Fold 3	Fold 4	Fold 5	Mean	Std
RMSE (testset) 0.0057	0.9046	0.9030	0.8941	0.9119	0.9038	0.9035	
MAE (testset) 0.0043	0.6940	0.6896	0.6891	0.7008	0.6954	0.6938	
Fit time	0.06	0.06	0.06	0.05	0.07	0.06	0.01
Test time	0.88	0.90	0.88	0.84	0.86	0.87	0.02
Evaluating RMSE,	MAE of a	lgorithm	KNNWith	Means on	5 split	(s).	
	Fold 1	Fold 2	Fold 3	Fold 4	Fold 5	Mean	Std
RMSE (testset) 0.0058	0.8445	0.8544	0.8624	0.8528	0.8510	0.8530	
MAE (testset) 0.0033	0.6471	0.6529	0.6574	0.6535	0.6513	0.6524	
Fit time	0.06	0.06	0.08	0.08	0.08	0.07	0.01
Test time	0.98	0.97	0.96	0.95	0.94	0.96	0.02
Evaluating RMSE,	MAE of a	lgorithm	KNNWith	ZScore o	n 5 spli	t(s).	
	Fold 1	Fold 2	Fold 3	Fold 4	Fold 5	Mean	Std
RMSE (testset) 0.0060	0.8532	0.8614	0.8467	0.8516	0.8441	0.8514	
MAE (testset) 0.0046	0.6479	0.6566	0.6466	0.6448	0.6434	0.6478	
Fit time	0.09	0.09	0.09	0.10	0.09	0.09	0.00
Test time	1.18	1.15	1.14	1.11	1.14	1.15	0.02
Evaluating RMSE,	MAE of a	lgorithm	KNNBase	line on	5 split(s).	
	Fold 1	Fold 2	Fold 3	Fold 4	Fold 5	Mean	Std
RMSE (testset) 0.0038	0.8447	0.8370	0.8347	0.8411	0.8434	0.8402	
MAE (testset) 0.0038	0.6463	0.6379	0.6383	0.6422	0.6469	0.6423	
Fit time	0.09	0.08	0.08	0.09	0.09	0.09	0.00
Test time	1.38	1.30	1.38	1.36	1.29	1.34	0.04

```
# Printing out the results for the KNN algorithms
print('Evaluation Results:')
print('Algoritm\t RMSE\t\t MAE')
print()
print('KNN Basic', '\t', round(cv knn basic['test rmse'].mean(), 4),
'\t', round(cv_knn_basic['test_mae'].mean(), 4))
print('KNN Means', '\t', round(cv knn means['test rmse'].mean(), 4),
'\t\t', round(cv knn means['test mae'].mean(), 4))
print('KNN ZScore', '\t', round(cv knn z['test rmse'].mean(), 4), '\
t', round(cv knn z['test mae'].mean(), 4)),
print('KNN Baseline', '\t', round(cv_knn_baseline['test_rmse'].mean(),
4), '\t', round(cv knn baseline['test mae'].mean(), 4))
print()
Evaluation Results:
Algoritm
           RMSE
                      MAE
KNN Basic
           0.9035
                       0.6938
KNN Means
           0.853
                            0.6524
KNN ZScore
                 0.8514
                            0.6478
                 0.8402
KNN Baseline
                            0.6423
```

KNN Grid Search

After running four different KNN algos, with 5 iterations each we see some baseline scores that look decent. Now just as we ran a grid search with our SVD model to find the optimal parameters, we will do the same with the KNN Baseline model which looked like it had the best results of the four KNN's that we ran.

Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sgd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sgd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix...

Done computing similarity matrix. Estimating biases using sgd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sgd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sgd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using sqd... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als... Computing the msd similarity matrix... Done computing similarity matrix. Estimating biases using als...

```
0.8369126470893992
{'k': 90, 'sim_options': {'user_based': False}, 'bsl_options':
{'method': 'sgd'}}

# FINAL KNN MODEL

print('Best value for K-NN GridSearch -RMSE:',
    round(gs_knnb.best_score['rmse'], 4), '; MAE:',
    round(gs_knnb.best_score['mae'], 4))
    print('Optimal params RMSE =', gs_knnb.best_params['rmse'])
    print('optimal params MAE =', gs_knnb.best_params['mae'])

Best value for K-NN GridSearch -RMSE: 0.8369; MAE: 0.64
Optimal params RMSE = {'k': 90, 'sim_options': {'user_based': False},
    'bsl_options': {'method': 'sgd'}}
    optimal params MAE = {'k': 90, 'sim_options': {'user_based': False},
    'bsl_options': {'method': 'als'}}
```

Visualizing our Scores:

We ran some intial iterations on our 2 algos and followed those up with a grid search, we will see if we can visualize all these scores to get a better sense of them.

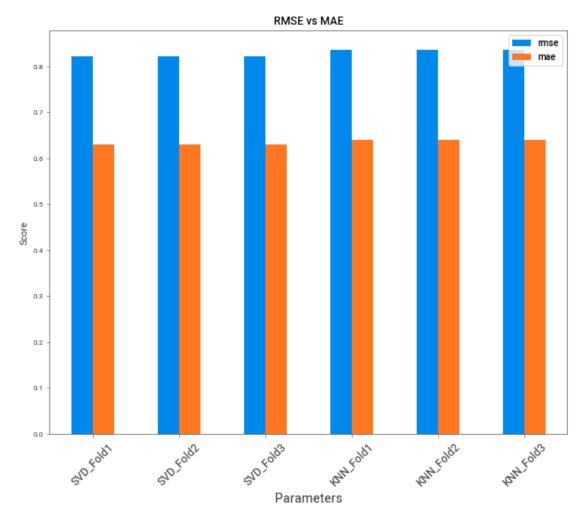
The steps to do this will be as follows:

- Create a dataframe for the scores of both the KNN and SVD algorithm
- Merge those 2 dataframes
- Plot a bar chart to show comparison

```
score_visuals= pd.DataFrame(gs_knnb.best_score, index = param_grid)
score_visuals
```

```
rmse
                            mae
             0.836913 0.639995
k
sim options 0.836913 0.639995
bsl options 0.836913 0.639995
svd score = pd.DataFrame(gs svd.best score, index = param grid)
svd score
                 rmse
                            mae
             0.822801 0.629953
k
sim options 0.822801 0.629953
bsl options 0.822801 0.629953
visual df = pd.concat([svd score, score visuals], axis=0)
visual df.index =
['SVD Fold1', 'SVD Fold2', 'SVD Fold3', 'KNN Fold1', 'KNN Fold2', 'KNN Fold
3 ' 1
visual df
```

```
rmse
                          mae
SVD Fold1
           0.822801 0.629953
SVD Fold2
           0.822801 0.629953
SVD Fold3
           0.822801
                    0.629953
KNN Fold1
           0.836913
                    0.639995
KNN Fold2
           0.836913
                    0.639995
KNN Fold3
           0.836913
                    0.639995
visual df.plot(kind='bar', figsize=(10,8))
plt.title('RMSE vs MAE')
plt.xlabel('Parameters', fontsize =(14))
plt.xticks(rotation = 45, fontsize = (12))
plt.ylabel('Score')
plt.savefig('scores.png')
```



```
print('GridSearch Results:')
print('Algoritm\t RMSE\t\t MAE')
print()
print('KNN Baselie', '\t', round(gs_knnb.best_score['rmse'].mean(),
4), '\t', round(gs_knnb.best_score['mae'].mean(), 4))
```

```
print('SVD', '\t\t', round(gs_svd.best_score['rmse'].mean(), 4), '\t',
round(gs_svd.best_score['mae'].mean(), 4))

GridSearch Results:
Algoritm RMSE MAE

KNN Baselie 0.8369 0.64
SVD 0.8228 0.63
```

Visual Results:

We see that the differences created by the GridSearch are so miniscule they are hardly noticeable between the the 2 algorithms. Therefore we will use the '.best_score' attribute to fit into our models and create 2 recommendation functions, one for each algorithm and compare the results.

Predictions

Now that we have our final KNN and SVD algorithms in place we will use the .fit attribute and then plug them into the 'get_top_n' function provided in the Surprise library documentation. This will return the top 5 items with the highest rating prediction for each user. We will try this on both our algorithms, starting with KNN.

```
final knn model = KNNBaseline(k=90, sim options={'name':
'pearson baseline', 'user based': False},
                              bsl options={'method':'sgd'})
final knn model.fit(dataset)
Estimating biases using sqd...
Computing the pearson baseline similarity matrix...
Done computing similarity matrix.
<surprise.prediction algorithms.knns.KNNBaseline at 0x7ff8e8dd9a00>
predictions k = final knn model.test(testset)
KNN Recommendation System:
from collections import defaultdict
def get top n k(predictions k, minimum num ratings= 50, n=5):
    """Return the top-N recommendation for each user from a set of
predictions.
    Args:
        predictions(list of Prediction objects): The list of
predictions, as
            returned by the test method of an algorithm.
        n(int): The number of recommendation to output for each user.
Default
```

```
Returns:
    A dict where keys are user (raw) ids and values are lists of
tuples:
        [(raw item id, rating estimation), ...] of size n.
    # Map the predictions to each user
    top n k = defaultdict(list)
    for uid, iid, true_r, est, _ in predictions_k:
        top n k[uid].append((iid, est))
    # Sort the predictions for each user and retrieve the k highest
ones
    for uid, user_ratings in top_n_k.items():
        user ratings.sort(key=lambda x: x[1], reverse=True)
        top n k[uid] = user ratings[:n]
    return top n k
top n k = get top n k(predictions k, n=5)
# Print the recommended items for each user
for uid, user ratings in top n k.items():
    print(uid, [iid for (iid, _) in user_ratings])
195 ['Lawrence of Arabia (1962)', 'There Will Be Blood (2007)', "Once
Upon a Time in the West (C'era una volta il West) (1968)", 'Ran
(1985)', "Guess Who's Coming to Dinner (1967)"]
90 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)', 'Hustler, The (1961)',
'Philadelphia Story, The (1940)']
603 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Cool Hand Luke (1967)', 'Hustler, The (1961)', "No
Man's Land (2001)", 'Doctor Zhivago (1965)']
290 ['Streetcar Named Desire, A (1951)', "Guess Who's Coming to Dinner
(1967)", 'Paths of Glory (1957)', 'Touch of Evil (1958)', '12 Angry
Men (1957)'l
474 ['In Bruges (2008)', 'Dark Knight, The (2008)', 'How to Train Your
Dragon (2010)', 'Spotlight (2015)', 'Snatch (2000)']
391 ['Touch of Evil (1958)', 'Great Escape, The (1963)', 'Cool Hand
Luke (1967)', 'Ghost in the Shell (Kôkaku kidôtai) (1995)', 'Hustler,
The (1961)']
74 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Philadelphia Story, The (1940)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Rear Window (1954)']
372 ['His Girl Friday (1940)', 'Dr. Strangelove or: How I Learned to
Stop Worrying and Love the Bomb (1964)', "Guess Who's Coming to Dinner
(1967)", 'Philadelphia Story, The (1940)', 'Touch of Evil (1958)']
```

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221 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Touch of Evil
(1958)', 'Hustler, The (1961)', 'Raging Bull (1980)', 'Paths of Glory
(1957) ' ]
275 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Streetcar Named Desire, A (1951)', 'Touch of Evil (1958)', 'Evil Dead
II (Dead by Dawn) (1987)']
606 ['Streetcar Named Desire, A (1951)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Paths of Glory (1957)', 'Ghost in the Shell (Kôkaku kidôtai) (1995)', 'Boot, Das (Boat, The) (1981)']
590 ['Streetcar Named Desire, A (1951)', 'Paths of Glory (1957)',
'Secrets & Lies (1996)', 'Amadeus (1984)', 'Ran (1985)']
177 ['Spotlight (2015)', 'Cinema Paradiso (Nuovo cinema Paradiso)
(1989)', 'Great Escape, The (1963)', "Amelie (Fabuleux destin d'Amélie
Poulain, Le) (2001)", 'Lawrence of Arabia (1962)']
140 ['Philadelphia Story, The (1940)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Rear Window (1954)', 'Grave of the Fireflies
(Hotaru no haka) (1988)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)']
27 ['Spotlight (2015)', 'Shawshank Redemption, The (1994)', 'Streetcar
Named Desire, A (1951)', 'Cinema Paradiso (Nuovo cinema Paradiso)
(1989)', 'Lawrence of Arabia (1962)']
488 ['Office Space (1999)', 'Prisoners (2013)', 'Boondock Saints, The
(2000)', 'Ran (1985)', 'Eternal Sunshine of the Spotless Mind (2004)']
587 ["Amelie (Fabuleux destin d'Amélie Poulain, Le) (2001)", 'Glory
(1989)', 'Lawrence of Arabia (1962)', 'Shawshank Redemption, The
         'Paths of Glory (1957)']
322 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
"No Man's Land (2001)", 'Princess Bride, The (1987)', 'High Noon
(1952) '1
265 ['Lawrence of Arabia (1962)', 'His Girl Friday (1940)', 'Laputa:
Castle in the Sky (Tenkû no shiro Rapyuta) (1986)', 'Unforgiven
(1992)', 'In Bruges (2008)']
113 ["Amelie (Fabuleux destin d'Amélie Poulain, Le) (2001)", 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Fight Club (1999)', 'Shawshank Redemption, The (1994)',
'Streetcar Named Desire, A (1951)']
105 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Touch of Evil (1958)', 'Philadelphia Story, The (1940)', 'In the Name
of the Father (1993)']
414 ['Touch of Evil (1958)', 'Yojimbo (1961)', 'Celebration, The
(Festen) (1998)', 'Life Is Beautiful (La Vita è bella) (1997)',
'Notorious (1946)'l
305 ['Casablanca (1942)', 'North by Northwest (1959)', 'Philadelphia
Story, The (1940), 'Streetcar Named Desire, A (1951), 'Outlaw Josey
Wales, The (1976)'l
199 ['Philadelphia Story, The (1940)', 'High Noon (1952)', 'Touch of
Evil (1958)', 'Chinatown (1974)', 'His Girl Friday (1940)'
599 ['In the Name of the Father (1993)', 'To Catch a Thief (1955)',
'Creature Comforts (1989)', "One Flew Over the Cuckoo's Nest (1975)",
'Crumb (1994)']
```

```
421 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'His Girl Friday (1940)', 'In the Name of the Father
(1993)', 'Lawrence of Arabia (1962)', 'Glory (1989)']
339 ['Lawrence of Arabia (1962)', 'Touch of Evil (1958)', 'Outlaw
Josey Wales, The (1976)', 'Hoop Dreams (1994)', 'Cool Hand Luke
(1967)'1
469 ['Seven Samurai (Shichinin no samurai) (1954)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'Secrets & Lies (1996)', 'There
Will Be Blood (2007)', 'Spirited Away (Sen to Chihiro no kamikakushi)
(2001) ']
249 ['Lawrence of Arabia (1962)', 'Hustler, The (1961)', 'His Girl
Friday (1940)', 'Harold and Maude (1971)', 'Grand Day Out with Wallace
and Gromit, A (1989)']
312 ['Touch of Evil (1958)', 'Shawshank Redemption, The (1994)',
'Harold and Maude (1971)', 'Cool Hand Luke (1967)', "One Flew Over the
Cuckoo's Nest (1975)"1
397 ['Dallas Buyers Club (2013)', 'Philadelphia Story, The (1940)',
"Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)', 'All
About My Mother (Todo sobre mi madre) (1999)']
84 ['Lawrence of Arabia (1962)', 'Seventh Seal, The (Sjunde inseglet,
Det) (1957)', 'Dr. Strangelove or: How I Learned to Stop Worrying and
Love the Bomb (1964)', 'Secrets & Lies (1996)', 'Boot, Das (Boat, The)
(1981) ']
118 ['His Girl Friday (1940)', 'Hustler, The (1961)', 'Rear Window
(1954)', 'Lawrence of Arabia (1962)', 'Good, the Bad and the Ugly, The
(Buono, il brutto, il cattivo, Il) (1966)'l
182 ['Notorious (1946)', 'Paths of Glory (1957)', 'Seven Samurai
(Shichinin no samurai) (1954)', 'Touch of Evil (1958)', 'Philadelphia
Story, The (1940)'
285 ['Touch of Evil (1958)', 'Paths of Glory (1957)', 'Happiness
(1998)', 'Hustler, The (1961)', 'Boot, Das (Boat, The) (1981)']
309 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Paths of Glory (1957)', 'Ghost in the Shell (Kôkaku
kidôtai) (1995)', 'His Girl Friday (1940)', 'Sunset Blvd. (a.k.a.
Sunset Boulevard) (1950)']
32 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Lawrence of Arabia (1962)', 'Touch of Evil (1958)',
"Guess Who's Coming to Dinner (1967)", 'Philadelphia Story, The
(1940) '1
568 ["Guess Who's Coming to Dinner (1967)", 'Notorious (1946)', 'Third
Man, The (1949)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)',
'Grave of the Fireflies (Hotaru no haka) (1988)']
357 ['Rear Window (1954)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'There Will Be Blood (2007)', 'His Girl Friday
(1940)']
387 ['Paths of Glory (1957)', 'Boot, Das (Boat, The) (1981)',
'Philadelphia Story, The (1940)', 'Hustler, The (1961)', 'Double
Indemnity (1944)']
171 ["Guess Who's Coming to Dinner (1967)", 'Ran (1985)', 'Sunset
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Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Philadelphia Story, The
(1940)', 'Lawrence of Arabia (1962)']
131 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Rear Window (1954)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Touch of Evil (1958)', 'Secrets & Lies (1996)']
198 ['Philadelphia Story, The (1940)', 'Great Escape, The (1963)',
'Lives of Others. The (Das leben der Anderen) (2006)', 'In the Mood
For Love (Fa yeung nin wa) (2000)', 'Streetcar Named Desire, A
(1951)'1
336 ['Streetcar Named Desire, A (1951)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Princess Bride, The (1987)', 'Outlaw Josey
Wales, The (1976)', 'Boot, Das (Boat, The) (1981)']
346 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'To Catch a Thief (1955)']
156 ['Streetcar Named Desire, A (1951)', 'Secrets & Lies (1996)',
'Boot, Das (Boat, The) (1981)', 'Fight Club (1999)', 'Spirited Away
(Sen to Chihiro no kamikakushi) (2001)']
318 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Streetcar
Named Desire, A (1951)', 'Lawrence of Arabia (1962)', 'Spotlight
(2015)', 'Harold and Maude (1971)']
580 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'In Bruges
(2008)', 'Life Is Beautiful (La Vita è bella) (1997)', 'Ghost in the
Shell (Kôkaku kidôtai) (1995)', 'Harold and Maude (1971)']
600 ['Lost in Translation (2003)', 'Lawrence of Arabia (1962)',
'Streetcar Named Desire, A (1951)', 'Seven Samurai (Shichinin no
samurai) (1954)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)']
390 ['There Will Be Blood (2007)', 'Life Is Beautiful (La Vita è
bella) (1997)', 'Lawrence of Arabia (1962)', 'Grave of the Fireflies
(Hotaru no haka) (1988)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)']
325 ['Streetcar Named Desire, A (1951)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'Secrets & Lies
(1996)', 'Philadelphia Story, The (1940)', 'Godfather: Part II, The
(1974)'1
23 ['Harold and Maude (1971)', 'Paths of Glory (1957)', 'Boondock
Saints, The (2000)', 'Lawrence of Arabia (1962)', 'Streetcar Named
Desire, A (1951)']
64 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'His Girl Friday (1940)', 'Streetcar Named Desire, A
(1951)', 'Philadelphia Story, The (1940)', 'Secrets & Lies (1996)'] 597 ['Streetcar Named Desire, A (1951)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'Touch of Evil
(1958)', 'Philadelphia Story, The (1940)', 'Shawshank Redemption, The
(1994)']
66 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The (1940)', 'Boot, Das (Boat, The) (1981)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'Brazil (1985)']
86 ['Streetcar Named Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Rear Window (1954)', 'Philadelphia Story, The
```

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(1940)', 'Lawrence of Arabia (1962)']
344 ['Raiders of the Lost Ark (Indiana Jones and the Raiders of the
Lost Ark) (1981)', 'This Is Spinal Tap (1984)', 'Star Wars: Episode V
- The Empire Strikes Back (1980)', 'Whiplash (2014)', 'Evil Dead II
(Dead by Dawn) (1987)']
170 ['Philadelphia Story, The (1940)', 'Streetcar Named Desire, A
(1951)', 'Rear Window (1954)', 'Hoop Dreams (1994)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)']
593 ['His Girl Friday (1940)', 'Lawrence of Arabia (1962)', 'Secrets &
Lies (1996)', 'Touch of Evil (1958)', 'Notorious (1946)']
209 ['Hoop Dreams (1994)', 'Harold and Maude (1971)', 'Dr. Strangelove
or: How I Learned to Stop Worrying and Love the Bomb (1964)', 'North
by Northwest (1959)', 'Rear Window (1954)']
589 ['Lawrence of Arabia (1962)', 'Cool Hand Luke (1967)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Nightcrawler (2014)', 'Guardians of the Galaxy (2014)'] 433 ['Doctor Dolittle (1967)', 'World Is Not Enough, The (1999)',
'Cruel Intentions (1999)', "Howl's Moving Castle (Hauru no ugoku
shiro) (2004)", 'Harry Potter and the Chamber of Secrets (2002)']
126 ['Third Man, The (1949)', 'Hedwig and the Angry Inch (2000)'
'Thank You for Smoking (2006)', 'Rear Window (1954)', 'Great Escape,
The (1963)']
304 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Lawrence of
Arabia (1962)', 'Grave of the Fireflies (Hotaru no haka) (1988)',
"Rosemary's Baby (1968)", "Guess Who's Coming to Dinner (1967)"]
331 ['Touch of Evil (1958)', 'Streetcar Named Desire, A (1951)',
"Miller's Crossing (1990)", 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Raging Bull (1980)']
46 ['Lawrence of Arabia (1962)', 'Ghost in the Shell (Kôkaku kidôtai) (1995)', 'Iron Giant, The (1999)', 'Evil Dead II (Dead by Dawn)
(1987)', 'Dawn of the Dead (2004)']
292 ['Lawrence of Arabia (1962)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Spotlight (2015)', 'Great Escape, The (1963)',
"Guess Who's Coming to Dinner (1967)"]
470 ['Lawrence of Arabia (1962)', 'Great Escape, The (1963)', 'His
Girl Friday (1940)', 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Raiders of the Lost Ark (Indiana Jones and the Raiders of
the Lost Ark) (1981)']
588 ['Streetcar Named Desire, A (1951)', 'Touch of Evil (1958)', 'Cool Hand Luke (1967)', 'Raging Bull (1980)', 'Persepolis (2007)']
592 ["Guess Who's Coming to Dinner (1967)", 'Boondock Saints, The
(2000)', 'Boogie Nights (1997)', 'Lawrence of Arabia (1962)',
'Nightcrawler (2014)']
135 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Lawrence of Arabia (1962)', 'Streetcar Named Desire, A
(1951)', 'Paths of Glory (1957)', 'Raging Bull (1980)']
99 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
(1985)']
498 ['Rear Window (1954)', 'Sweet Hereafter, The (1997)', 'Third Man,
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The (1949)', 'City of God (Cidade de Deus) (2002)', "Singin' in the
Rain (1952)"]
125 ['Hoop Dreams (1994)', 'Lawrence of Arabia (1962)', 'Goodfellas
(1990)', 'To Catch a Thief (1955)', 'Streetcar Named Desire, A
(1951)'1
314 ['Rear Window (1954)', 'Philadelphia Story, The (1940)', 'Patton
(1970)', 'Paths of Glory (1957)', 'Cool Hand Luke (1967)'l
279 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'His Girl Friday (1940)', 'Lawrence of Arabia (1962)', 'Paths
of Glory (1957)'l
317 ['Touch of Evil (1958)', 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Lawrence of Arabia (1962)', 'In the Name of the Father
(1993)', 'Grand Day Out with Wallace and Gromit, A (1989)']
43 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Ran (1985)', 'His Girl Friday (1940)', 'Sunset Blvd. (a.k.a.
Sunset Boulevard) (1950)']
107 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Philadelphia
Story, The (1940)', 'Patton (1970)', 'Fantastic Mr. Fox (2009)',
'Forrest Gump (1994)'l
152 ['Streetcar Named Desire, A (1951)', 'Brazil (1985)', 'Seventh
Seal, The (Sjunde inseglet, Det) (1957)', 'Lawrence of Arabia (1962)',
'Touch of Evil (1958)']
435 ['Lawrence of Arabia (1962)', 'Rear Window (1954)', 'Streetcar
Named Desire, A (1951)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'North by Northwest (1959)']
382 ['Streetcar Named Desire, A (1951)', 'Touch of Evil (1958)', 'His
Girl Friday (1940)', 'Paths of Glory (1957)', "Guess Who's Coming to
Dinner (1967)"]
72 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Lawrence of Arabia (1962)', 'Rear Window (1954)',
'Paths of Glory (1957)', 'Fight Club (1999)']
256 ['Rear Window (1954)', 'Streetcar Named Desire, A (1951)', 'Touch
of Evil (1958)', 'Lawrence of Arabia (1962)', 'Seventh Seal, The
(Sjunde inseglet, Det) (1957)']
34 ['High Noon (1952)', 'Bridge on the River Kwai, The (1957)', 'Grand
Day Out with Wallace and Gromit, A (1989)', 'His Girl Friday (1940)',
'Ghost in the Shell (Kôkaku kidôtai) (1995)']
461 ["Howl's Moving Castle (Hauru no ugoku shiro) (2004)", 'Step
Brothers (2008)', 'Doctor Strange (2016)', 'Fantastic Mr. Fox (2009)',
'Up (2009)']
526 ['Harold and Maude (1971)', 'Hoop Dreams (1994)', 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Lawrence of Arabia
(1962) ' ]
483 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Streetcar Named Desire, A (1951)', 'Rear Window
(1954)', 'Ran (1985)', 'Logan (2017)']
54 ['Philadelphia Story, The (1940)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Streetcar Named Desire, A (1951)', 'Lawrence
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of Arabia (1962)', 'Notorious (1946)']
261 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Touch of Evil (1958)', 'Philadelphia Story, The (1940)', 'Secrets &
Lies (1996)'l
88 ['Touch of Evil (1958)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'High Noon (1952)', 'Streetcar
Named Desire, A (1951)', 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)']
420 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The (1940)', 'Boot, Das (Boat, The) (1981)', 'Lawrence of Arabia (1962)',
'Cool Hand Luke (1967)']
343 ['There Will Be Blood (2007)', "Rosemary's Baby (1968)", "Once
Upon a Time in the West (C'era una volta il West) (1968)", 'Lawrence
of Arabia (1962)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)']
16 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'Streetcar Named Desire, A (1951)',
'Boot, Das (Boat, The) (1981)', 'Lawrence of Arabia (1962)']
258 ['Harold and Maude (1971)', "Miller's Crossing (1990)", 'Boondock
Saints, The (2000)', 'To Catch a Thief (1955)', 'Boot, Das (Boat, The)
(1981)'1
130 ['Hustler, The (1961)', "Rosemary's Baby (1968)", 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'Raging Bull (1980)', 'Sweet
Hereafter, The (1997)']
282 ['Philadelphia Story, The (1940)', 'Streetcar Named Desire, A
(1951)', 'There Will Be Blood (2007)', "Guess Who's Coming to Dinner
(1967)", 'Cool Hand Luke (1967)']
47 ["Guess Who's Coming to Dinner (1967)", 'Rear Window (1954)',
'Streetcar Named Desire, A (1951)', 'Philadelphia Story, The (1940)',
'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)']
462 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Secrets &
Lies (1996)', 'Hoop Dreams (1994)']
203 ['Boondock Saints, The (2000)', 'Touch of Evil (1958)',
'Celebration, The (Festen) (1998)', 'Ran (1985)', 'Rear Window
(1954)'1
410 ['There Will Be Blood (2007)', 'Hoop Dreams (1994)', "Rosemary's
Baby (1968)", 'Lawrence of Arabia (1962)', 'Snatch (2000)']
559 ['Lawrence of Arabia (1962)', 'His Girl Friday (1940)', 'Raiders
of the Lost Ark (Indiana Jones and the Raiders of the Lost Ark)
(1981)', 'Chinatown (1974)', 'Dr. Strangelove or: How I Learned to
Stop Worrying and Love the Bomb (1964)'
515 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
473 ['Rear Window (1954)', 'There Will Be Blood (2007)', 'Nightcrawler
(2014)', "One Flew Over the Cuckoo's Nest (1975)", 'Goodfellas
(1990)']
385 ['Paths of Glory (1957)', 'Harold and Maude (1971)', 'Rear Window
(1954)', 'To Catch a Thief (1955)', 'His Girl Friday (1940)']
340 ['His Girl Friday (1940)', 'Sunset Blvd. (a.k.a. Sunset Boulevard)
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(1950)', 'Hustler, The (1961)', 'Philadelphia Story, The (1940)',
'Lawrence of Arabia (1962)']
68 ['Rebecca (1940)', 'Nightcrawler (2014)', 'Legend of Drunken
Master, The (Jui kuen II) (1994)', 'Bridge on the River Kwai, The
(1957)', 'There Will Be Blood (2007)']
477 ['Harold and Maude (1971)', 'There Will Be Blood (2007)', 'Seventh
Seal, The (Sjunde inseglet, Det) (1957)', 'Paths of Glory (1957)',
'Spotlight (2015)']
557 ['Streetcar Named Desire, A (1951)', 'Mulholland Drive (2001)',
"Howl's Moving Castle (Hauru no ugoku shiro) (2004)", 'Murder in the
First (1995)', "Miller's Crossing (1990)"]
497 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'There Will Be
Blood (2007)', 'Streetcar Named Desire, A (1951)', 'Just Cause
(1995)', 'Manchurian Candidate, The (1962)']
370 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'Streetcar Named Desire, A (1951)',
'Rear Window (1954)', "Guess Who's Coming to Dinner (1967)"]
56 ['Dallas Buyers Club (2013)', 'Dr. Strangelove or: How I Learned to
Stop Worrying and Love the Bomb (1964)', 'Boogie Nights (1997)',
'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Nightcrawler
(2014)'1
419 ['Lawrence of Arabia (1962)', 'Boondock Saints, The (2000)',
"Rosemary's Baby (1968)", 'Philadelphia Story, The (1940)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)'
472 ['Philadelphia Story, The (1940)', 'Casablanca (1942)', 'Touch of
Evil (1958)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)',
'Captain Phillips (2013)']
555 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Philadelphia Story, The (1940)', 'Departed, The (2006)', 'Cool Hand Luke (1967)', 'Eternal Sunshine of the Spotless
Mind (2004)'l
28 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned to
Stop Worrying and Love the Bomb (1964)', 'Touch of Evil (1958)', 'Evil
Dead II (Dead by Dawn) (1987)', 'Ghost in the Shell (Kôkaku kidôtai)
(1995)']
263 ['Rear Window (1954)', 'Lawrence of Arabia (1962)', "Guess Who's
Coming to Dinner (1967)", 'Streetcar Named Desire, A (1951)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)']
262 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Hustler, The
(1961)', 'Hoop Dreams (1994)', 'Apocalypse Now (1979)', 'Brazil
(1985)'1
434 ['Rear Window (1954)', "Amelie (Fabuleux destin d'Amélie Poulain,
Le) (2001)", 'Good, the Bad and the Ugly, The (Buono, il brutto, il
cattivo, Il) (1966)', 'Usual Suspects, The (1995)', 'Godfather: Part
II, The (1974)'
58 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Third Man, The (1949)', 'Ran (1985)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)']
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572 ['Life Is Beautiful (La Vita è bella) (1997)', 'There Will Be
Blood (2007)', 'Philadelphia Story, The (1940)', "Guess Who's Coming
to Dinner (1967)", 'Touch of Evil (1958)']
426 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Murder in the First (1995)', "Guess Who's Coming to Dinner
(1967)", 'Emma (1996)']
378 ['Philadelphia Story, The (1940)', 'There Will Be Blood (2007)',
'Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Streetcar Named Desire, A (1951)', 'Hoop Dreams (1994)']
103 ['Touch of Evil (1958)', 'Ran (1985)', 'Streetcar Named Desire, A (1951)', 'Boot, Das (Boat, The) (1981)', 'Lawrence of Arabia (1962)']
298 ['His Girl Friday (1940)', 'Hoop Dreams (1994)', 'Touch of Evil
(1958)', 'Paths of Glory (1957)', 'Seventh Seal, The (Sjunde inseglet,
Det) (1957)'l
334 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
"Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Princess Bride, The (1987)']
132 ['Lawrence of Arabia (1962)', 'Streetcar Named Desire, A (1951)',
'Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)',
'Philadelphia Story, The (1940)']
541 ['Lawrence of Arabia (1962)', 'Cool Hand Luke (1967)', 'Touch of
Evil (1958)', "Guess Who's Coming to Dinner (1967)", 'Boondock Saints,
The (2000)']
169 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Ran (1985)', 'His Girl Friday (1940)', 'Sunset Blvd. (a.k.a.
Sunset Boulevard) (1950)']
480 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Lawrence of Arabia (1962)', 'His Girl Friday (1940)',
'Rear Window (1954)', "Guess Who's Coming to Dinner (1967)"]
542 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Dark Knight,
The (2008)', 'Cinema Paradiso (Nuovo cinema Paradiso) (1989)', 'North
by Northwest (1959)', 'In the Mood For Love (Fa yeung nin wa) (2000)']
468 ['Help, The (2011)', 'Patton (1970)', 'Hedwig and the Angry Inch
(2000)', 'Lawrence of Arabia (1962)', "Rosemary's Baby (1968)"]
212 ['Streetcar Named Desire, A (1951)', 'Rear Window (1954)',
'Philadelphia Story, The (1940)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Departed, The (2006)']
335 ['Harold and Maude (1971)', 'Fight Club (1999)', 'Harry Potter and the Prisoner of Azkaban (2004)', 'Indiana Jones and the Last Crusade
(1989)', 'Nightcrawler (2014)']
424 ['Dogville (2003)', 'Ran (1985)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Streetcar Named Desire, A (1951)', 'Boot, Das
(Boat, The) (1981)'l
190 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Streetcar Named Desire, A (1951)', 'There Will Be Blood
(2007)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Sunset
Blvd. (a.k.a. Sunset Boulevard) (1950)']
29 ['Boondock Saints, The (2000)', 'Philadelphia Story, The (1940)',
'Boot, Das (Boat, The) (1981)', 'Spotlight (2015)', 'Outlaw Josey
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Wales, The (1976)'l
539 ["Guess Who's Coming to Dinner (1967)", 'Star Trek (2009)',
'Eastern Promises (2007)', 'Philadelphia Story, The (1940)', 'Sunset
Blvd. (a.k.a. Sunset Boulevard) (1950)']
119 ['Lawrence of Arabia (1962)', 'North by Northwest (1959)', 'To Catch a Thief (1955)', 'High Noon (1952)', 'Dr. Strangelove or: How I
Learned to Stop Worrving and Love the Bomb (1964)'l
102 ['Raging Bull (1980)', 'Streetcar Named Desire, A (1951)', 'Brazil
(1985)', "Miller's Crossing (1990)", 'Boot, Das (Boat, The) (1981)']
425 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Streetcar
Named Desire, A (1951)', 'Rear Window (1954)', 'There Will Be Blood
(2007)', 'Philadelphia Story, The (1940)']
18 ['Lawrence of Arabia (1962)', 'Streetcar Named Desire, A (1951)', 'Philadelphia Story, The (1940)', 'Touch of Evil (1958)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)'1
6 ['Lawrence of Arabia (1962)', 'Hoop Dreams (1994)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'There Will Be Blood (2007)',
'Help, The (2011)']
42 ['Streetcar Named Desire, A (1951)', 'Touch of Evil (1958)',
'Lawrence of Arabia (1962)', 'Philadelphia Story, The (1940)', 'Raging
Bull (1980)']
295 ['Prisoners (2013)', 'Spirited Away (Sen to Chihiro no
kamikakushi) (2001)', 'Streetcar Named Desire, A (1951)', 'In the Mood
For Love (Fa yeung nin wa) (2000)', 'Inside Job (2010)']
117 ['Lawrence of Arabia (1962)', 'Great Escape, The (1963)', 'Cool
Hand Luke (1967)', 'Dr. Strangelove or: How I Learned to Stop Worrying
and Love the Bomb (1964)', 'Sunset Blvd. (a.k.a. Sunset Boulevard)
(1950)'1
511 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Streetcar Named Desire, A (1951)', 'Rear Window (1954)', 'Hoop Dreams
(1994) ']
319 ['Lawrence of Arabia (1962)', 'Hoop Dreams (1994)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)']
537 ['Big Sleep, The (1946)', 'Happiness (1998)', 'Friday (1995)',
"Howl's Moving Castle (Hauru no ugoku shiro) (2004)", 'High Noon
296 ['Streetcar Named Desire, A (1951)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Harold and Maude (1971)', 'Cool Hand Luke
(1967)', 'Rear Window (1954)']
30 ['Streetcar Named Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Philadelphia Story, The (1940)', 'Lawrence of
Arabia (1962)', 'Cool Hand Luke (1967)']
512 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'To Catch a Thief (1955)', 'Monty Python and the Holy
Grail (1975)', "One Flew Over the Cuckoo's Nest (1975)", 'Touch of
Evil (1958)']
215 ['North by Northwest (1959)', 'Great Escape, The (1963)', 'Cool
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Hand Luke (1967)', 'Lawrence of Arabia (1962)', 'Rear Window (1954)']
380 ['His Girl Friday (1940)', 'Lawrence of Arabia (1962)', 'Harold
and Maude (1971)', 'Ghost in the Shell (Kôkaku kidôtai) (1995)',
'Seven Samurai (Shichinin no samurai) (1954)']
83 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Cool Hand Luke (1967)', 'Intouchables (2011)', 'Like Water
for Chocolate (Como agua para chocolate) (1992)'l
379 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Hoop Dreams
(1994)', 'Dogville (2003)', 'Cool Hand Luke (1967)', 'Raising Arizona
(1987)']
189 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Streetcar Named
Desire, A (1951)', 'Lawrence of Arabia (1962)', 'There Will Be Blood
(2007)', 'Happiness (1998)']
513 ['Rear Window (1954)', 'Lawrence of Arabia (1962)', 'Casablanca
(1942)', 'Happiness (1998)', 'North by Northwest (1959)']
67 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Philadelphia Story, The (1940)', 'Streetcar Named Desire, A (1951)', 'In the Name
of the Father (1993)', 'Outlaw Josey Wales, The (1976)']
466 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'To Catch a Thief (1955)',
'Streetcar Named Desire, A (1951)', 'Grave of the Fireflies (Hotaru no
haka) (1988)']
413 ['Streetcar Named Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Third Man, The (1949)', 'All About Eve (1950)',
'Boondock Saints, The (2000)']
211 ['Streetcar Named Desire, A (1951)', 'Rear Window (1954)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Philadelphia Story, The (1940)', 'American History X
(1998)'1
65 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Princess Bride, The (1987)', 'Philadelphia Story, The (1940)', 'There Will Be
Blood (2007)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)']
430 ['Philadelphia Story, The (1940)', 'Blade Runner (1982)', 'Touch
of Evil (1958)', 'Dr. Strangelove or: How I Learned to Stop Worrving
and Love the Bomb (1964)', 'Rear Window (1954)']
191 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Brazil (1985)', 'Amadeus (1984)', 'Streetcar Named
Desire, A (1951)', 'Spirited Away (Sen to Chihiro no kamikakushi)
(2001)'1
464 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Cool Hand Luke (1967)', 'Rear Window (1954)', 'Grave of the Fireflies
(Hotaru no haka) (1988)']
517 ["Guess Who's Coming to Dinner (1967)", 'Grave of the Fireflies
(Hotaru no haka) (1988)', 'Streetcar Named Desire, A (1951)',
'Postman, The (Postino, Il) (1994)', 'Cinema Paradiso (Nuovo cinema
Paradiso) (1989)']
133 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Third Man, The (1949)',
'Rear Window (1954)', 'Brazil (1985)']
422 ['Lawrence of Arabia (1962)', 'Rise of the Guardians (2012)', 'His
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Girl Friday (1940)', 'Star Wars: Episode V - The Empire Strikes Back
(1980)', 'Star Wars: Episode VI - Return of the Jedi (1983)']
323 ['Streetcar Named Desire, A (1951)', "Guess Who's Coming to Dinner
(1967)", "Rosemary's Baby (1968)", 'Paths of Glory (1957)', 'High Noon
(1952)'1
432 ['Rear Window (1954)', 'Streetcar Named Desire, A (1951)',
'Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Happiness (1998)']
608 ['Dark Knight, The (2008)', 'Prisoners (2013)', 'Spotlight
(2015)', 'Departed, The (2006)', 'There Will Be Blood (2007)']
106 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Ran (1985)', 'His Girl Friday (1940)', 'Sunset Blvd. (a.k.a.
Sunset Boulevard) (1950)']
502 ['Notorious (1946)', 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Paths of Glory (1957)', 'Lawrence of Arabia (1962)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964) ' 1
33 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Boot, Das (Boat, The) (1981)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'Chinatown
220 ['Lawrence of Arabia (1962)', 'His Girl Friday (1940)',
'Philadelphia Story, The (1940)', 'Hoop Dreams (1994)', 'Touch of Evil
411 ['Streetcar Named Desire, A (1951)', 'Dallas Buyers Club (2013)',
'Lawrence of Arabia (1962)', 'Seven Pounds (2008)', 'Creature Comforts
(1989)']
81 ['Hoop Dreams (1994)', 'Chinatown (1974)', 'Horrible Bosses 2
(2014)', 'Little Big Man (1970)', 'Harold and Maude (1971)']
193 ['Happiness (1998)', 'Raging Bull (1980)', "Miller's Crossing
(1990)", 'Streetcar Named Desire, A (1951)', 'Evil Dead II (Dead by Dawn) (1987)']
278 ['Prisoners (2013)', 'Avengers: Infinity War - Part I (2018)',
'Deadpool 2 (2018)', 'Grave of the Fireflies (Hotaru no haka) (1988)',
'Lone Star (1996)'l
338 ['Paths of Glory (1957)', 'High Noon (1952)', 'Touch of Evil
(1958)', 'Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940) '1
551 ['Philadelphia Story, The (1940)', 'Streetcar Named Desire, A
(1951)', 'Touch of Evil (1958)', 'Outlaw Josey Wales, The (1976)',
'Rear Window (1954)']
373 ['Streetcar Named Desire, A (1951)', 'Spirited Away (Sen to
Chihiro no kamikakushi) (2001)', 'Dr. Strangelove or: How I Learned to
Stop Worrying and Love the Bomb (1964)', 'Raging Bull (1980)',
'Godfather: Part II, The (1974)']
381 ['Streetcar Named Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', "Guess Who's Coming to Dinner (1967)",
'Philadelphia Story, The (1940)', 'Dark Knight, The (2008)']
274 ['Ghost in the Shell (Kôkaku kidôtai) (1995)', "Amelie (Fabuleux
destin d'Amélie Poulain, Le) (2001)", 'Seventh Seal, The (Sjunde
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inseglet, Det) (1957)', 'Lawrence of Arabia (1962)', 'Philadelphia
Story, The (1940)']
50 ['Touch of Evil (1958)', 'Streetcar Named Desire, A (1951)', 'To
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423 ['Bachelor, The (1999)', 'City of God (Cidade de Deus) (2002)',
'Rear Window (1954)', 'Lawrence of Arabia (1962)', 'Wallace & Gromit:
The Wrong Trousers (1993)'l
332 ['Philadelphia Story, The (1940)', "Guess Who's Coming to Dinner
(1967)", 'Streetcar Named Desire, A (1951)', 'His Girl Friday (1940)',
'Ran (1985)']
5 ['Lawrence of Arabia (1962)', 'Hoop Dreams (1994)', 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'Young Frankenstein (1974)',
'Boot, Das (Boat, The) (1981)']
272 ['Touch of Evil (1958)', 'High Noon (1952)', 'Streetcar Named
Desire, A (1951)', 'Princess Bride, The (1987)', 'Goodfellas (1990)']
549 ['Déjà Vu (Deja Vu) (2006)', 'Night at the Museum (2006)', 'Paul
(2011)', 'King Arthur (2004)', 'Seventh Seal, The (Sjunde inseglet,
Det) (1957)'l
607 ['There Will Be Blood (2007)', 'Boondock Saints, The (2000)',
'Philadelphia Story, The (1940)', 'Beautiful Mind, A (2001)',
'Fantastic Mr. Fox (2009)']
219 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Grand Day Out with Wallace and Gromit, A (1989)',
'Touch of Evil (1958)', 'Good, the Bad and the Ugly, The (Buono, il
brutto, il cattivo, Il) (1966)', 'In the Name of the Father (1993)']
337 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
(1985)', 'His Girl Friday (1940)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)']
375 ['Ran (1985)', "Once Upon a Time in the West (C'era una volta il
West) (1968)", 'In the Name of the Father (1993)', 'Hoop Dreams
(1994)', 'Godfather, The (1972)']
550 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Goodfellas (1990)', 'High Noon (1952)', 'Celebration,
The (Festen) (1998)', 'Outlaw Josey Wales, The (1976)']
300 ['High Noon (1952)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'Monty Python and the Holy Grail (1975)', 'Paths of Glory (1957)', 'There Will Be Blood (2007)']
17 ['Lawrence of Arabia (1962)', 'His Girl Friday (1940)', 'Harold and
Maude (1971)', 'Ghost in the Shell (Kôkaku kidôtai) (1995)',
'Streetcar Named Desire, A (1951)']
187 ['Streetcar Named Desire, A (1951)', 'Touch of Evil (1958)',
'Boot, Das (Boat, The) (1981)', 'Hustler, The (1961)', "Miller's
Crossing (1990)"]
49 ["Once Upon a Time in the West (C'era una volta il West) (1968)",
'Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Lawrence of Arabia (1962)', 'Outlaw Josey Wales, The
(1976)', 'There Will Be Blood (2007)']
374 ['Goodfellas (1990)', 'Harold and Maude (1971)', 'Logan (2017)',
'Hustler, The (1961)', 'Evil Dead II (Dead by Dawn) (1987)']
532 ["Harry Potter and the Sorcerer's Stone (a.k.a. Harry Potter and
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the Philosopher's Stone) (2001)", 'Ran (1985)', 'Lawrence of Arabia
(1962)', 'Grave of the Fireflies (Hotaru no haka) (1988)', 'Snatch
(2000)']
503 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Touch of Evil (1958)', 'Apocalypse Now (1979)', 'Star Wars: Episode
IV - A New Hope (1977)'l
159 ['Philadelphia Story, The (1940)', "Guess Who's Coming to Dinner
(1967)", 'Hoop Dreams (1994)', 'Lawrence of Arabia (1962)', 'Outlaw
Josey Wales, The (1976)']
145 ['Iron Giant, The (1999)', 'Hoop Dreams (1994)', 'Dogville (2003)', 'Boogie Nights (1997)', 'Good, the Bad and the Ugly, The
(Buono, il brutto, il cattivo, Il) (1966)']
367 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Grave of the Fireflies (Hotaru no haka) (1988)', "Guess Who's Coming
to Dinner (1967)", 'Cool Hand Luke (1967)']
40 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Usual Suspects, The (1995)', 'Streetcar Named Desire, A (1951)', 'Ran
(1985)']
8 ['Philadelphia Story, The (1940)', 'Goodfellas (1990)', 'Manchurian
Candidate, The (1962)', 'Road Warrior, The (Mad Max 2) (1981)', 'There
Will Be Blood (2007)']
581 ['Streetcar Named Desire, A (1951)', 'Grave of the Fireflies
(Hotaru no haka) (1988)', 'Touch of Evil (1958)', 'Philadelphia Story,
The (1940)', 'Lawrence of Arabia (1962)']
70 ['Lawrence of Arabia (1962)', 'Evil Dead II (Dead by Dawn) (1987)',
'His Girl Friday (1940)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'Happiness (1998)']
574 ['Hustler, The (1961)', 'Outlaw Josey Wales, The (1976)', 'Seventh
Seal, The (Sjunde inseglet, Det) (1957)', 'Crumb (1994)', 'Big Sleep,
The (1946)']
121 ['Streetcar Named Desire, A (1951)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Raging Bull (1980)', 'Ran (1985)', 'Third
Man, The (1949)'
564 ['Hoop Dreams (1994)', 'Touch of Evil (1958)', 'Lawrence of Arabia
(1962)', 'Streetcar Named Desire, A (1951)', 'High Noon (1952)']
439 ['Happiness (1998)', 'Streetcar Named Desire, A (1951)', 'Seventh
Seal, The (Sjunde inseglet, Det) (1957)', 'Three Colors: Red (Trois
couleurs: Rouge) (1994)', "Howl's Moving Castle (Hauru no ugoku shiro)
486 ['Paths of Glory (1957)', 'Lawrence of Arabia (1962)', 'Rear
Window (1954)', 'Princess Bride, The (1987)', 'Star Wars: Episode IV -
A New Hope (1977)'
577 ['Intouchables (2011)', 'Lawrence of Arabia (1962)', 'Rear Window
(1954)', 'Thank You for Smoking (2006)', "Guess Who's Coming to Dinner
(1967)"]
227 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Streetcar
Named Desire, A (1951)', 'Brazil (1985)', 'Ran (1985)', 'Grave of the
Fireflies (Hotaru no haka) (1988)']
37 ['Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)',
'Hustler, The (1961)', 'Double Indemnity (1944)', 'Philadelphia Story,
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The (1940)'l
449 ['Streetcar Named Desire, A (1951)', 'Rear Window (1954)',
'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Touch of Evil
(1958)', 'Philadelphia Story, The (1940)']
288 ['Ran (1985)', 'Touch of Evil (1958)', 'Streetcar Named Desire, A
(1951)', 'Yojimbo (1961)', 'Godfather, The (1972)']
565 ['Lawrence of Arabia (1962)', 'Streetcar Named Desire, A (1951)',
'Paths of Glory (1957)', "One Flew Over the Cuckoo's Nest (1975)",
'Goodfellas (1990)']
404 ['Lawrence of Arabia (1962)', 'High Noon (1952)', 'Philadelphia
Story, The (1940)', 'Rear Window (1954)', 'Paths of Glory (1957)'] 329 ['Client, The (1994)', 'Time to Kill, A (1996)', 'Proposal, The
(2009)', 'Sudden Death (1995)', 'Secret of Roan Inish, The (1994)']
601 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Lawrence of Arabia (1962)', 'Philadelphia Story, The
(1940)', 'Ran (1985)', 'Streetcar Named Desire, A (1951)']
408 ['Touch of Evil (1958)', 'Philadelphia Story, The (1940)', 'Ran
(1985)', 'Dr. Strangelove or: How I Learned to Stop Worrying and Love
the Bomb (1964)', 'Lawrence of Arabia (1962)']
76 ['To Catch a Thief (1955)', 'His Girl Friday (1940)', 'Double
Indemnity (1944)', 'Philadelphia Story, The (1940)', 'Paths of Glory
(1957)']
487 ['Harold and Maude (1971)', 'Streetcar Named Desire, A (1951)',
'Spirited Away (Sen to Chihiro no kamikakushi) (2001)', 'Great Escape,
The (1963)', 'Raging Bull (1980)']
519 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Logan (2017)', 'To Catch a Thief (1955)', 'Spotlight (2015)'] 400 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Dr. Strangelove or: How I Learned to Stop Worrying and Love
the Bomb (1964)', 'Lawrence of Arabia (1962)', 'Paths of Glory
(1957) ']
455 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Grave of the Fireflies (Hotaru no haka) (1988)', 'Ran (1985)', '12
Angry Men (1957)']
242 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Streetcar Named Desire, A (1951)', 'Usual Suspects, The
(1995)', 'Prisoners (2013)', 'Eternal Sunshine of the Spotless Mind
(2004)'1
361 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Prisoners
(2013)', 'Legend of Drunken Master, The (Jui kuen II) (1994)',
'Eastern Promises (2007)', 'Spotlight (2015)']
80 ['Lawrence of Arabia (1962)', 'Rear Window (1954)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Streetcar Named Desire, A (1951)', 'Spotlight (2015)']
356 ['Lawrence of Arabia (1962)', 'Rear Window (1954)', 'His Girl
Friday (1940)', 'Great Escape, The (1963)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)'
161 ['Prisoners (2013)', 'Coco (2017)', 'Laputa: Castle in the Sky
(Tenkû no shiro Rapyuta) (1986)', 'City of God (Cidade de Deus)
(2002)', 'Evil Dead II (Dead by Dawn) (1987)']
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566 ['Lawrence of Arabia (1962)', 'Philadelphia Story, The (1940)',
'Shining, The (1980)', "Monty Python's And Now for Something
Completely Different (1971)", 'There Will Be Blood (2007)']
233 ['Lawrence of Arabia (1962)', 'Streetcar Named Desire, A (1951)',
"Guess Who's Coming to Dinner (1967)", 'Ran (1985)', 'Dr. Strangelove
or: How I Learned to Stop Worrying and Love the Bomb (1964)']
362 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Streetcar Named Desire, A (1951)', 'Touch of
Evil (1958)']
354 ['Streetcar Named Desire, A (1951)', "Guess Who's Coming to Dinner
(1967)", 'Philadelphia Story, The (1940)', 'Rear Window (1954)', 'His
Girl Friday (1940)']
197 ['Harry Potter and the Prisoner of Azkaban (2004)', 'Prisoners
(2013)', 'Nightcrawler (2014)', 'Crazy, Stupid, Love. (2011)',
"Pirates of the Caribbean: Dead Man's Chest (2006)"]
353 ['Philadelphia Story, The (1940)', 'Touch of Evil (1958)',
'Streetcar Named Desire, A (1951)', 'Notorious (1946)', 'Usual
Suspects, The (1995)']
11 ['Touch of Evil (1958)', 'Sunset Blvd. (a.k.a. Sunset Boulevard)
(1950)', "Guess Who's Coming to Dinner (1967)", 'Shining, The (1980)',
'Three Colors: Red (Trois couleurs: Rouge) (1994)']
363 ['Streetcar Named Desire, A (1951)', "Miller's Crossing (1990)",
'Eternal Sunshine of the Spotless Mind (2004)', 'Seventh Seal, The
(Sjunde inseglet, Det) (1957)', 'To Catch a Thief (1955)']
93 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
416 ["Miller's Crossing (1990)", 'Touch of Evil (1958)', '8 1/2 (8\frac{1}{2})
(1963)', 'Eternal Sunshine of the Spotless Mind (2004)', 'Taxi Driver
(1976) ' ]
91 ['Lawrence of Arabia (1962)', 'Logan (2017)', 'Paths of Glory
(1957)', 'In Bruges (2008)', 'Kiss Kiss Bang Bang (2005)']
443 ["Harry Potter and the Sorcerer's Stone (a.k.a. Harry Potter and
the Philosopher's Stone) (2001)", 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Proposal, The (2009)', 'Crazy, Stupid, Love.
(2011)', 'North by Northwest (1959)']
69 ['Streetcar Named Desire, A (1951)', 'His Girl Friday (1940)',
'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Philadelphia Story,
The (1940)', 'Lawrence of Arabia (1962)']
232 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Touch of Evil (1958)', 'Streetcar Named Desire, A (1951)', 'Usual
Suspects, The (1995)']
247 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Streetcar
Named Desire, A (1951)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'Lawrence of Arabia (1962)',
'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)'l
307 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', "Amelie (Fabuleux destin d'Amélie Poulain, Le) (2001)",
'In Bruges (2008)', 'Whiplash (2014)', 'Old Boy (2003)']
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22 ['Gods Must Be Crazy, The (1980)', 'Just Cause (1995)', 'To Catch a
Thief (1955)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)',
'Murder in the First (1995)']
523 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
417 ["Rosemary's Baby (1968)", 'Grave of the Fireflies (Hotaru no
haka) (1988)', 'Ran (1985)', 'Streetcar Named Desire, A (1951)',
'Third Man, The (1949)']
111 ['High Noon (1952)', 'Streetcar Named Desire, A (1951)', '12 Angry
Men (1957)', 'Great Escape, The (1963)', 'This Is Spinal Tap (1984)'] 52 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Dr. Strangelove or: How I Learned to Stop Worrying and Love
the Bomb (1964)', 'Touch of Evil (1958)', 'Casablanca (1942)']
562 ['Spotlight (2015)', 'Lawrence of Arabia (1962)', 'Dr. Strangelove
or: How I Learned to Stop Worrying and Love the Bomb (1964)', "Guess
Who's Coming to Dinner (1967)", 'His Girl Friday (1940)'] 365 ['North by Northwest (1959)', 'For a Few Dollars More (Per qualche
dollaro in più) (1965)', 'Great Escape, The (1963)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'Across the Universe (2007)']
484 ['Great Escape, The (1963)', 'Cool Hand Luke (1967)', 'High Noon
(1952)', 'Lawrence of Arabia (1962)', 'Princess Bride, The (1987)'] 200 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Boondock Saints, The
(2000)', 'Hustler, The (1961)', 'Streetcar Named Desire, A (1951)']
386 ['Streetcar Named Desire, A (1951)', 'Secrets & Lies (1996)',
'Manhattan (1979)', 'Double Indemnity (1944)', 'Raging Bull (1980)']
453 ['Lawrence of Arabia (1962)', 'Rear Window (1954)', 'Hoop Dreams (1994)', 'Departed, The (2006)', 'Princess Bride, The (1987)']
228 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', "Howl's Moving
Castle (Hauru no ugoku shiro) (2004)", 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'His Girl Friday
(1940)', "Kiki's Delivery Service (Majo no takkyûbin) (1989)"]
179 ['Rear Window (1954)', 'Philadelphia Story, The (1940)', 'Boondock
Saints, The (2000)', 'His Girl Friday (1940)', 'Goodfellas (1990)']
94 ['Star Wars: Episode V - The Empire Strikes Back (1980)', 'Lawrence
of Arabia (1962)', 'Paths of Glory (1957)', 'Star Wars: Episode IV - A
New Hope (1977)', 'Hoop Dreams (1994)']
229 ['Touch of Evil (1958)', 'Hoop Dreams (1994)', 'Goodfellas
(1990)', 'Cool Hand Luke (1967)', 'Rear Window (1954)']
176 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Big Sleep, The (1946)', 'Third Man, The (1949)', 'Grave
of the Fireflies (Hotaru no haka) (1988)', 'Harold and Maude (1971)']
524 ['Lawrence of Arabia (1962)', 'Prisoners (2013)', 'Hedwig and the Angry Inch (2000)', 'Outlaw Josey Wales, The (1976)', 'Dr. Strangelove
or: How I Learned to Stop Worrying and Love the Bomb (1964)']
352 ['Lawrence of Arabia (1962)', 'Streetcar Named Desire, A (1951)', 'Philadelphia Story, The (1940)', 'Cool Hand Luke (1967)', 'Seventh
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123 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Spotlight
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(2015)', 'Lawrence of Arabia (1962)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Casablanca (1942)']
444 ['Streetcar Named Desire, A (1951)', "Rosemary's Baby (1968)", 'Touch of Evil (1958)', 'Psycho (1960)', 'Brazil (1985)']
178 ['Paths of Glory (1957)', 'Touch of Evil (1958)', 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'Raging Bull (1980)', 'Streetcar
Named Desire, A (1951)'l
162 ['Philadelphia Story, The (1940)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'There Will Be Blood (2007)', 'Das Experiment
(Experiment, The) (2001)', 'Boot, Das (Boat, The) (1981)']
230 ['Harold and Kumar Go to White Castle (2004)', 'Prisoners (2013)', "Pirates of the Caribbean: At World's End (2007)", 'Boondock Saints,
The (2000)', 'Eastern Promises (2007)'l
250 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Streetcar Named Desire, A (1951)', 'Celebration, The (Festen)
(1998)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)']
284 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Outlaw Josey
Wales, The (1976)', 'Kiss Kiss Bang Bang (2005)', 'Nightcrawler
(2014)', 'Raiders of the Lost Ark (Indiana Jones and the Raiders of
the Lost Ark) (1981)']
348 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Lawrence of Arabia (1962)', 'Harold and Maude (1971)', 'Cool
Hand Luke (1967)']
36 ['Lost in Translation (2003)', 'To Catch a Thief (1955)', 'Raiders
of the Lost Ark (Indiana Jones and the Raiders of the Lost Ark)
(1981)', 'Hot Fuzz (2007)', 'Unforgiven (1992)']
330 ['Streetcar Named Desire, A (1951)', "Amelie (Fabuleux destin
d'Amélie Poulain, Le) (2001)", 'Spirited Away (Sen to Chihiro no
kamikakushi) (2001)', 'Philadelphia Story, The (1940)', 'In Bruges
(2008)']
313 ['Streetcar Named Desire, A (1951)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'There Will Be Blood (2007)', 'Happiness
(1998)', 'Ran (1985)']
326 ['Lawrence of Arabia (1962)', 'North by Northwest (1959)',
"Miller's Crossing (1990)", 'Rear Window (1954)', 'Seventh Seal, The
(Sjunde inseglet, Det) (1957)']
570 ['Rear Window (1954)', 'Lawrence of Arabia (1962)', 'Philadelphia
Story, The (1940)', 'Life Is Beautiful (La Vita è bella) (1997)', 'His
Girl Friday (1940)']
308 ["Harry Potter and the Sorcerer's Stone (a.k.a. Harry Potter and
the Philosopher's Stone) (2001)", 'Harry Potter and the Deathly Hallows: Part 1 (2010)', 'Help, The (2011)', 'Harry Potter and the
Deathly Hallows: Part 2 (2011)', "Howl's Moving Castle (Hauru no ugoku
shiro) (2004)"1
61 ['Lawrence of Arabia (1962)', 'Streetcar Named Desire, A (1951)',
'His Girl Friday (1940)', 'Rear Window (1954)', 'Dr. Strangelove or:
How I Learned to Stop Worrying and Love the Bomb (1964)'
141 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'There Will Be
Blood (2007)', 'Cool Hand Luke (1967)', 'Philadelphia Story, The
(1940)', 'Outlaw Josey Wales, The (1976)']
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235 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
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(1964)', "Guess Who's Coming to Dinner (1967)", 'Manchurian Candidate,
The (1962)'l
328 ['Hoop Dreams (1994)', 'Harold and Maude (1971)', 'Ran (1985)',
'Lawrence of Arabia (1962)', 'Raging Bull (1980)']
240 ['Hoop Dreams (1994)', 'Harold and Maude (1971)', 'Outlaw Josey
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"Howl's Moving Castle (Hauru no ugoku shiro) (2004)"]
520 ['Streetcar Named Desire, A (1951)', 'His Girl Friday (1940)',
'Philadelphia Story, The (1940)', 'Rear Window (1954)', 'Glory
(1989)']
476 ['Lawrence of Arabia (1962)', 'Chinatown (1974)', 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'Cool Hand Luke (1967)', 'Rear
Window (1954)']
137 ['Touch of Evil (1958)', 'Streetcar Named Desire, A (1951)', 'High
Noon (1952)', 'Philadelphia Story, The (1940)', 'Hustler, The (1961)']
237 ['Hoop Dreams (1994)', 'Streetcar Named Desire, A (1951)',
'Lawrence of Arabia (1962)', 'Brazil (1985)', 'Little Big Man (1970)']
436 ['Patton (1970)', 'Great Escape, The (1963)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'Apocalypse Now (1979)', 'Lawrence
of Arabia (1962)']
602 ['Touch of Evil (1958)', 'Lawrence of Arabia (1962)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Grave of the Fireflies (Hotaru no haka) (1988)', 'Princess
Bride. The (1987)'l
167 ['Dark Knight, The (2008)', "Guess Who's Coming to Dinner (1967)",
'Departed, The (2006)', 'Harold and Maude (1971)', 'In Bruges (2008)']
460 ['Streetcar Named Desire, A (1951)', 'High Noon (1952)', 'There
Will Be Blood (2007)', 'Rear Window (1954)', 'Ran (1985)'] 327 ['Spotlight (2015)', 'Prisoners (2013)', 'Tangled (2010)', 'Emma
(1996)', 'Das Experiment (Experiment, The) (2001)']
239 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Touch of Evil (1958)', 'Lawrence of Arabia (1962)'
'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Spotlight (2015)']
495 ['Streetcar Named Desire, A (1951)', 'Rear Window (1954)',
'Philadelphia Story, The (1940)', 'Ghost in the Shell (Kôkaku kidôtai)
(1995)', 'Grand Day Out with Wallace and Gromit, A (1989)']
78 ['His Girl Friday (1940)', 'Yojimbo (1961)', 'Hoop Dreams (1994)', 'Lawrence of Arabia (1962)', 'Departed, The (2006)']
609 ['Amadeus (1984)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'Streetcar Named Desire, A
(1951)', 'Lawrence of Arabia (1962)', 'Eternal Sunshine of the
Spotless Mind (2004)']
122 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)'l
522 ['High Noon (1952)', 'Philadelphia Story, The (1940)', 'Lawrence
of Arabia (1962)', 'His Girl Friday (1940)', 'Seventh Seal, The
(Sjunde inseglet, Det) (1957)']
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409 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Streetcar Named Desire, A
(1951)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'To Catch a
Thief (1955)'l
415 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
'Touch of Evil (1958)', 'Ran (1985)', 'Philadelphia Story, The
(1940)'1
60 ['Prisoners (2013)', 'Lawrence of Arabia (1962)', 'Dazed and
Confused (1993)', 'Fear and Loathing in Las Vegas (1998)',
'Philadelphia Story, The (1940)']
166 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'His Girl Friday (1940)',
'Ran (1985)', 'In Bruges (2008)']
15 ['To Catch a Thief (1955)', 'Lawrence of Arabia (1962)', 'Touch of
Evil (1958)', 'North by Northwest (1959)', 'Rear Window (1954)'] 254 ['Streetcar Named Desire, A (1951)', 'Paths of Glory (1957)'
'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Lawrence of Arabia
(1962)', 'Boot, Das (Boat, The) (1981)']
586 ["Howl's Moving Castle (Hauru no ugoku shiro) (2004)", 'Harold and
Maude (1971)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)',
'Dogville (2003)', 'Spirited Away (Sen to Chihiro no kamikakushi)
(2001)']
124 ['Notorious (1946)', 'Paths of Glory (1957)', 'Boot, Das (Boat,
The) (1981)', 'Philadelphia Story, The (1940)', 'Ran (1985)']
38 ['Lawrence of Arabia (1962)', 'Persepolis (2007)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'Cool Hand Luke (1967)', 'North by
Northwest (1959)']
223 ['Fantastic Mr. Fox (2009)', "Guess Who's Coming to Dinner
(1967)", 'Rear Window (1954)', 'His Girl Friday (1940)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)']
62 ['Lawrence of Arabia (1962)', 'Touch of Evil (1958)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Streetcar Named Desire, A (1951)', 'Rear Window (1954)']
24 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Lawrence of
Arabia (1962)', 'Dr. Strangelove or: How I Learned to Stop Worrying
and Love the Bomb (1964)', 'Touch of Evil (1958)', 'His Girl Friday
(1940)'
283 ['Battlestar Galactica (2003)', 'Boondock Saints, The (2000)',
'Horrible Bosses 2 (2014)', 'Rise of the Guardians (2012)', 'Inside
Job (2010)']
573 ['Boondock Saints, The (2000)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'His Girl Friday (1940)',
'Logan (2017)', 'Harold and Maude (1971)']
418 ['Touch of Evil (1958)', 'To Catch a Thief (1955)', 'Paths of
Glory (1957)', 'Harold and Maude (1971)', "Monty Python's And Now for
Something Completely Different (1971)"]
525 ['Streetcar Named Desire, A (1951)', 'His Girl Friday (1940)',
'Rear Window (1954)', 'Lawrence of Arabia (1962)', 'Philadelphia
Story, The (1940)']
14 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Persepolis
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(2007)', 'Grave of the Fireflies (Hotaru no haka) (1988)', 'Dawn of
the Dead (2004)', 'Dogville (2003)']
241 ['Streetcar Named Desire, A (1951)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'His Girl Friday
(1940)', 'Harold and Maude (1971)', 'Philadelphia Story, The (1940)']
251 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
(1985)'
561 ['His Girl Friday (1940)', 'Lawrence of Arabia (1962)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Harold and Maude (1971)', 'Paths of Glory (1957)']
438 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Lawrence of Arabia (1962)', 'His Girl Friday (1940)',
'Raiders of the Lost Ark (Indiana Jones and the Raiders of the Lost
Ark) (1981)', 'High Noon (1952)']
2 ['You Only Live Twice (1967)', 'Bonnie and Clyde (1967)', 'Dr.
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(1964)', 'Boys on the Side (1995)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)']
437 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Paths of Glory (1957)', 'Philadelphia Story, The
(1940)', 'Streetcar Named Desire, A (1951)', 'Touch of Evil (1958)']
447 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Young
Frankenstein (1974)', 'To Catch a Thief (1955)', 'Evil Dead II (Dead
by Dawn) (1987)', 'Boot, Das (Boat, The) (1981)']
63 ['Cool Hand Luke (1967)', 'Philadelphia Story, The (1940)', 'Touch
of Evil (1958)', 'Lawrence of Arabia (1962)', 'Streetcar Named Desire,
A (1951)']
202 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
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The (1980)', 'Celebration, The (Festen) (1998)']
109 ['Streetcar Named Desire, A (1951)', "Miller's Crossing (1990)",
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(1958)', 'Lawrence of Arabia (1962)']
216 ['Lawrence of Arabia (1962)', 'Goodfellas (1990)', 'Dr.
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(1964)', 'Apocalypse Now (1979)', 'Touch of Evil (1958)']
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(1952)', 'Dr. Strangelove or: How I Learned to Stop Worrying and Love
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57 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
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9 ['Ran (1985)', 'Yojimbo (1961)', 'His Girl Friday (1940)', 'Monty
Python and the Holy Grail (1975)', 'Dr. Strangelove or: How I Learned
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59 ['Streetcar Named Desire, A (1951)', 'Touch of Evil (1958)',
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53 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
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552 ['Lawrence of Arabia (1962)', 'Star Wars: Episode IV - A New Hope
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128 ['Forrest Gump (1994)', 'High Noon (1952)', 'Dark Knight, The
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188 ['Grave of the Fireflies (Hotaru no haka) (1988)', 'Inside Job
(2010)', 'Raging Bull (1980)', 'Shawshank Redemption, The (1994)',
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of Evil (1958)', 'Streetcar Named Desire, A (1951)', 'For a Few
Dollars More (Per qualche dollaro in più) (1965)']
345 ['Streetcar Named Desire, A (1951)', 'Dr. Strangelove or: How I
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Blood (2007)', 'His Girl Friday (1940)', 'Sunset Blvd. (a.k.a. Sunset
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508 ['Intouchables (2011)', 'Seven Pounds (2008)', 'Avengers: Infinity
War - Part I (2018)', 'How to Train Your Dragon 2 (2014)', 'The Hunger
Games: Mockingjay - Part 1 (2014)']
138 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Princess Bride,
The (1987)', 'Nightcrawler (2014)', 'There Will Be Blood (2007)',
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268 ['Ran (1985)', 'Streetcar Named Desire, A (1951)', 'Touch of Evil
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95 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned to
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500 ['Prisoners (2013)', 'Dr. Strangelove or: How I Learned to Stop
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Angry Men (1957)']
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(Hauru no ugoku shiro) (2004)"]
315 ['Help, The (2011)', 'Rebecca (1940)', 'Streetcar Named Desire, A
(1951)', 'Inside Job (2010)', '10 Cloverfield Lane (2016)']
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(1967)"]
108 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Touch of Evil
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cinema Paradiso) (1989)', 'Apocalypse Now (1979)']
226 ['Ghost in the Shell (Kôkaku kidôtai) (1995)', 'Dr. Strangelove
or: How I Learned to Stop Worrying and Love the Bomb (1964)',
'Shawshank Redemption, The (1994)', 'Reservoir Dogs (1992)',
'Notorious (1946)']
494 ['Rear Window (1954)', "Amelie (Fabuleux destin d'Amélie Poulain,
Le) (2001)", 'Shawshank Redemption, The (1994)', 'Streetcar Named
Desire, A (1951)', 'City of God (Cidade de Deus) (2002)']
79 ['Shawshank Redemption, The (1994)', 'Lawrence of Arabia (1962)',
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and Maude (1971)']
245 ['Prisoners (2013)', 'Avengers: Infinity War - Part I (2018)'
'Across the Universe (2007)', 'Warrior (2011)', 'The Intern (2015)']
528 ['Boondock Saints, The (2000)', 'Lawrence of Arabia (1962)', 'Shawshank Redemption, The (1994)', 'Fear and Loathing in Las Vegas
(1998)', 'Saving Private Ryan (1998)']
41 ['Shawshank Redemption, The (1994)', "Guess Who's Coming to Dinner
(1967)", 'Streetcar Named Desire, A (1951)', 'Grave of the Fireflies
(Hotaru no haka) (1988)', 'There Will Be Blood (2007)']
224 ['Streetcar Named Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset
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238 ['Horrible Bosses 2 (2014)', 'Secret of Roan Inish, The (1994)',
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Affair, The (1999)']
492 ['Evil Dead II (Dead by Dawn) (1987)', 'Philadelphia Story, The
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(1984)'
21 ["Miller's Crossing (1990)", 'Lawrence of Arabia (1962)', 'Grave of
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to Stop Worrying and Love the Bomb (1964)', 'Shawshank Redemption, The
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222 ['Hustler, The (1961)', 'Dr. Strangelove or: How I Learned to Stop
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368 ['Lawrence of Arabia (1962)', 'Philadelphia Story, The (1940)',
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The (1994)'l
165 ['Harold and Maude (1971)', 'Spotlight (2015)', 'Cinema Paradiso
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(1954)'1
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350 ['Evil Dead II (Dead by Dawn) (1987)', 'Boot, Das (Boat, The)
(1981)', 'Unforgiven (1992)', 'Boondock Saints, The (2000)', 'Hoop
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364 ['Streetcar Named Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Philadelphia Story, The (1940)', 'Touch of Evil
(1958)', 'Manchurian Candidate, The (1962)']
120 ['Touch of Evil (1958)', 'Boot, Das (Boat, The) (1981)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
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'Legend of Drunken Master, The (Jui kuen II) (1994)']
160 ['Streetcar Named Desire, A (1951)', 'Shawshank Redemption, The
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(2003) 1
82 ['Shawshank Redemption, The (1994)', 'Spotlight (2015)', 'Lawrence
of Arabia (1962)', 'Legend of Drunken Master, The (Jui kuen II) (1994)', 'Departed, The (2006)']
553 ['Streetcar Named Desire, A (1951)', 'Shawshank Redemption, The
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(1964)', "Monty Python's And Now for Something Completely Different
(1971)", 'Boot, Das (Boat, The) (1981)']
183 ['Lawrence of Arabia (1962)', 'Grave of the Fireflies (Hotaru no haka) (1988)', 'Dogville (2003)', 'Dr. Strangelove or: How I Learned
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596 ['Streetcar Named Desire, A (1951)', 'Dr. Strangelove or: How I
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'Brazil (1985)'l
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Squall (1996)', 'Thomas Crown Affair, The (1999)', 'Serenity (2005)']
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97 ['Fog of War: Eleven Lessons from the Life of Robert S. McNamara,
The (2003)', 'Lawrence of Arabia (1962)', 'In the Name of the Father
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324 ['Warrior (2011)', 'Hobbit: An Unexpected Journey, The (2012)',
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96 ['Secrets & Lies (1996)', 'Shawshank Redemption, The (1994)'
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51 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Dr.
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(1967)", 'Streetcar Named Desire, A (1951)', 'Dallas Buyers Club
(2013)', 'Boot, Das (Boat, The) (1981)']
153 ['American History X (1998)', 'There Will Be Blood (2007)',
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286 ['Streetcar Named Desire, A (1951)', 'Dr. Strangelove or: How I
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Northwest (1959)', 'Laputa: Castle in the Sky (Tenkû no shiro Rapyuta)
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101 ['Streetcar Named Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset
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19 ['Lawrence of Arabia (1962)', 'Seven Samurai (Shichinin no samurai)
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(1989)', 'Dr. Strangelove or: How I Learned to Stop Worrying and Love
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of the Guardians (2012)']
533 ['Whiplash (2014)', 'Evil Dead II (Dead by Dawn) (1987)',
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(1957)', 'Shawshank Redemption, The (1994)']
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(2001)", '12 Angry Men (1957)', 'Sunset Blvd. (a.k.a. Sunset
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289 ['21 Jump Street (2012)', 'Philadelphia Story, The (1940)',
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218 ['Disclosure (1994)', 'Philadelphia Story, The (1940)', 'Déjà Vu
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149 ['Spotlight (2015)', 'Do the Right Thing (1989)', 'Logan (2017)', 'Touch of Evil (1958)', 'Hustler, The (1961)']
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398 ["Guess Who's Coming to Dinner (1967)", 'Notorious (1946)', 'North
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403 ['Celebration, The (Festen) (1998)', 'In the Mood For Love (Fa
yeung nin wa) (2000)', 'To Catch a Thief (1955)', 'Spotlight (2015)',
'Cool Hand Luke (1967)']
115 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Lawrence of
Arabia (1962)', 'Grave of the Fireflies (Hotaru no haka) (1988)', 'Ran
(1985)', 'Streetcar Named Desire, A (1951)']
85 ['Across the Universe (2007)', 'Prisoners (2013)', 'There Will Be
Blood (2007)', 'Perks of Being a Wallflower, The (2012)', 'Up (2009)']
499 ['Shawshank Redemption, The (1994)', 'Hoop Dreams (1994)',
'Shooter (2007)', 'Sherlock Holmes: A Game of Shadows (2011)',
'Streetcar Named Desire, A (1951)']
100 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Dark Knight, The (2008)', 'Shawshank Redemption, The (1994)', 'Legend
of Drunken Master, The (Jui kuen II) (1994)']
201 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A (1951)', 'Shawshank Redemption, The (1994)', 'Philadelphia Story, The
(1940)', 'Lawrence of Arabia (1962)']
545 ['Prisoners (2013)', 'Dallas Buyers Club (2013)', 'Boyhood
(2014)', "Guess Who's Coming to Dinner (1967)", "Monty Python's And
Now for Something Completely Different (1971)"]
563 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Lawrence of Arabia (1962)', 'Shawshank Redemption, The
(1994)', 'High Noon (1952)', "Monty Python's And Now for Something
Completely Different (1971)"|
527 ['Harold and Maude (1971)', 'Evil Dead II (Dead by Dawn) (1987)',
'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Dr. Strangelove
or: How I Learned to Stop Worrying and Love the Bomb (1964)',
'Streetcar Named Desire, A (1951)']
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of the Fireflies (Hotaru no haka) (1988)', 'Legend of Drunken Master,
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The (Jui kuen II) (1994)', 'There Will Be Blood (2007)']
509 ['Streetcar Named Desire, A (1951)', 'Lawrence of Arabia (1962)',
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'Philadelphia Story, The (1940)']
205 ['Princess Bride, The (1987)', 'Fight Club (1999)', 'In Bruges
(2008)', 'Evil Dead II (Dead by Dawn) (1987)', 'Dr. Strangelove or:
How I Learned to Stop Worrying and Love the Bomb (1964)']
196 ['Emma (1996)', 'Lone Star (1996)', 'Dallas Buyers Club (2013)'
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210 ["Rosemary's Baby (1968)", 'Philadelphia Story, The (1940)',
'Notorious (1946)', 'Spotlight (2015)', 'Princess Bride, The (1987)']
248 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', "One Flew Over the Cuckoo's Nest (1975)", 'Brazil
(1985)', 'Lives of Others, The (Das leben der Anderen) (2006)',
'Raging Bull (1980)']
139 ["Nobody's Fool (1994)", 'Hoop Dreams (1994)', 'Lawrence of Arabia
(1962)', 'His Girl Friday (1940)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)']
538 ['Ran (1985)', 'Shawshank Redemption, The (1994)', 'Philadelphia Story, The (1940)', 'Cool Hand Luke (1967)', 'Touch of Evil (1958)']
77 ['Little Big Man (1970)', 'This Is Spinal Tap (1984)', 'Harry
Potter and the Goblet of Fire (2005)', "Harry Potter and the
Sorcerer's Stone (a.k.a. Harry Potter and the Philosopher's Stone)
(2001)", 'Touch of Evil (1958)']
25 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
548 ['Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)',
'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Philadelphia Story,
The (1940)', 'All About Eve (1950)']
73 ['Touch of Evil (1958)', 'To Catch a Thief (1955)', 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'Dr. Strangelove or: How I Learned
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'Philadelphia Story, The (1940)', 'Goodfellas (1990)']
112 ['Nightcrawler (2014)', 'Harold and Maude (1971)', 'Unforgiven
(1992)', 'Lost in Translation (2003)', 'Brazil (1985)']
534 ['High Noon (1952)', 'Lawrence of Arabia (1962)', 'His Girl Friday
(1940)', 'Ran (1985)', 'Shawshank Redemption, The (1994)']
184 ['Fight Club (1999)', 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Shawshank Redemption, The (1994)', 'Cool Hand Luke (1967)',
"Miller's Crossing (1990)"]
174 ['There Will Be Blood (2007)', 'Hustler, The (1961)', 'Grave of
the Fireflies (Hotaru no haka) (1988)', "Rosemary's Baby (1968)",
'Chinatown (1974)']
446 ['Lawrence of Arabia (1962)', 'Celebration, The (Festen) (1998)',
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(1994)'1
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569 ['Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)'.
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'Third Man, The (1949)', 'Conversation, The (1974)']
35 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Shawshank Redemption, The (1994)', 'Philadelphia Story, The (1940)',
'Hoop Dreams (1994)'l
142 ['Philadelphia Story, The (1940)', 'Streetcar Named Desire, A
(1951)', 'Notorious (1946)', 'Lives of Others, The (Das leben der
Anderen) (2006)', '12 Angry Men (1957)']
595 ['Streetcar Named Desire, A (1951)', 'Celebration, The (Festen)
(1998)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)',
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Coming to Dinner (1967)", 'Streetcar Named Desire, A (1951)', 'His
Girl Friday (1940)']
297 ["Once Upon a Time in the West (C'era una volta il West) (1968)",
'Coco (2017)', 'Persepolis (2007)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Good, the Bad and the
Ugly, The (Buono, il brutto, il cattivo, Il) (1966)']
501 ['Nightcrawler (2014)', 'His Girl Friday (1940)', 'Battlestar
Galactica (2003)', "Rosemary's Baby (1968)", 'To Kill a Mockingbird
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394 ['Touch of Evil (1958)', 'Shawshank Redemption, The (1994)',
'Raging Bull (1980)', 'Chinatown (1974)', 'To Catch a Thief (1955)']
244 ['Dr. Strangelove or: How I Learned to Stop Worrying and Love the
Bomb (1964)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)',
'Lawrence of Arabia (1962)', "Howl's Moving Castle (Hauru no ugoku
shiro) (2004)", 'Eternal Sunshine of the Spotless Mind (2004)']
598 ['White Squall (1996)', 'North by Northwest (1959)', 'Sunset Blvd.
(a.k.a. Sunset Boulevard) (1950)', 'Proposal, The (2009)', 'Postman,
The (Postino, Il) (1994)']
388 ['Hoop Dreams (1994)', 'Persuasion (1995)', 'Watchmen (2009)',
'Fear and Loathing in Las Vegas (1998)', 'Tangled (2010)']
225 ['Beautiful Mind, A (2001)', 'Shawshank Redemption, The (1994)',
'Grave of the Fireflies (Hotaru no haka) (1988)', 'American History X
(1998)', 'Boondock Saints, The (2000)']
148 ['Touch of Evil (1958)', 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Dr. Strangelove or: How I Learned to Stop Worrying and Love
the Bomb (1964)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)',
'Rebecca (1940)']
267 ["Guess Who's Coming to Dinner (1967)", 'Thank You for Smoking
(2006)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)',
'Philadelphia Story, The (1940)', 'Captain Phillips (2013)']
516 ['Intouchables (2011)', 'Prisoners (2013)', 'Fantastic Beasts and Where to Find Them (2016)', 'Third Man, The (1949)', 'Shawshank
Redemption, The (1994)']
605 ['Philadelphia Story, The (1940)', 'Hoop Dreams (1994)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
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Boulevard) (1950)', 'Rear Window (1954)']
114 ['Boondock Saints, The (2000)', 'Harold and Maude (1971)', 'City
of God (Cidade de Deus) (2002)', "One Flew Over the Cuckoo's Nest
(1975)", 'Goodfellas (1990)']
44 ['North by Northwest (1959)', 'Sweet Hereafter, The (1997)',
'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Star Wars: Episode V
- The Empire Strikes Back (1980)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)']
531 ['Celebration, The (Festen) (1998)', 'Rear Window (1954)',
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of Arabia (1962)']
389 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)'.
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277 ['Secrets & Lies (1996)', 'Celebration, The (Festen) (1998)', 'It
Happened One Night (1934)', 'Philadelphia Story, The (1940)', 'Fog of
War: Eleven Lessons from the Life of Robert S. McNamara, The (2003)']
456 ['Secrets & Lies (1996)', 'His Girl Friday (1940)', 'Double
Indemnity (1944)', 'It Happened One Night (1934)', 'Philadelphia
Story, The (1940)']
71 ['In the Mood For Love (Fa yeung nin wa) (2000)', 'Boondock Saints,
The (2000)', 'Across the Universe (2007)', 'Blind Side, The (2009)',
'How to Train Your Dragon (2010)']
276 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
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(1994)', 'Boondock Saints, The (2000)', 'Star Wars: Episode V - The
Empire Strikes Back (1980)']
303 ['His Girl Friday (1940)', 'Dr. Strangelove or: How I Learned to
Stop Worrying and Love the Bomb (1964)', 'Lawrence of Arabia (1962)',
'To Catch a Thief (1955)', 'Remember the Titans (2000)']
253 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Chinatown (1974)']
377 ['Lawrence of Arabia (1962)', 'Ghost in the Shell (Kôkaku kidôtai)
(1995)', 'Boondock Saints, The (2000)', 'Touch of Evil (1958)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
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349 ['Philadelphia Story, The (1940)', 'Seventh Seal, The (Sjunde
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'Touch of Evil (1958)']
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579 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
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Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)']
536 ['Fantastic Mr. Fox (2009)', 'Crash (2004)', 'Big Sleep, The
(1946)', 'Snatch (2000)', 'Shaolin Soccer (Siu lam juk kau) (2001)'] 264 ['Philadelphia Story, The (1940)', 'Streetcar Named Desire, A
(1951)', 'Boot, Das (Boat, The) (1981)', 'Grave of the Fireflies
(Hotaru no haka) (1988)', "Once Upon a Time in the West (C'era una
volta il West) (1968)"]
395 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Watchmen
(2009)', 'Happiness (1998)', 'Big Sleep, The (1946)', 'Boondock
Saints, The (2000)']
173 ['Philadelphia Story, The (1940)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Hoop Dreams (1994)', 'Patton (1970)',
"Rosemary's Baby (1968)"1
359 ['Streetcar Named Desire, A (1951)', 'Philadelphia Story, The
(1940)', 'Dogville (2003)', "Guess Who's Coming to Dinner (1967)",
'Shawshank Redemption, The (1994)']
243 ['Streetcar Named Desire, A (1951)', 'Hustler, The (1961)',
'Philadelphia Story, The (1940)', "Once Upon a Time in the West (C'era
una volta il West) (1968)", 'In the Name of the Father (1993)']
402 ['Streetcar Named Desire, A (1951)', 'Kiss Kiss Bang Bang (2005)',
'Miracle on 34th Street (1947)', 'Sweet Hereafter, The (1997)', 'Rear
Window (1954)'l
172 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Thomas Crown
Affair, The (1999)', "Miller's Crossing (1990)", 'In the Mood For Love
(Fa yeung nin wa) (2000)', 'Streetcar Named Desire, A (1951)']
3 ['End of Days (1999)', 'Nightcrawler (2014)', 'Dawn of the Dead
(1978)', 'Evil Dead II (Dead by Dawn) (1987)', 'Legend of Drunken
Master, The (Jui kuen II) (1994)']
311 ['Just Cause (1995)', 'Nightcrawler (2014)', 'Into the Wild
(2007)', "Rosemary's Baby (1968)", 'Coco (2017)']
427 ['Paths of Glory (1957)', 'Seventh Seal, The (Sjunde inseglet,
Det) (1957)', 'Touch of Evil (1958)', 'Ran (1985)', 'Raging Bull
(1980)']
355 ['Touch of Evil (1958)', "Rosemary's Baby (1968)", 'Life Is
Beautiful (La Vita è bella) (1997)', 'There Will Be Blood (2007)',
'Grand Day Out with Wallace and Gromit, A (1989)']
281 ['Coco (2017)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'Hoop Dreams (1994)', 'Hustler,
The (1961)', 'Three Colors: Red (Trois couleurs: Rouge) (1994)']
207 ["Rosemary's Baby (1968)", 'How to Train Your Dragon 2 (2014)',
'Philadelphia Story, The (1940)', 'City Lights (1931)', 'Help, The
(2011)']
271 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned
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Buyers Club (2013)', 'Unforgiven (1992)']
571 ['Sudden Death (1995)', 'Tangled (2010)', 'Grave of the Fireflies (Hotaru no haka) (1988)', 'Streetcar Named Desire, A (1951)',
'Philadelphia Story, The (1940)']
383 ['Cinema Paradiso (Nuovo cinema Paradiso) (1989)', 'Inside Job
(2010)', 'Dark Knight, The (2008)', "Amelie (Fabuleux destin d'Amélie
Poulain, Le) (2001)", 'Shawshank Redemption, The (1994)']
164 ['Lawrence of Arabia (1962)', 'North by Northwest (1959)', 'Grave
of the Fireflies (Hotaru no haka) (1988)', 'Bridge on the River Kwai,
The (1957)', 'Patton (1970)']
431 ['Goodfellas (1990)', 'Green Mile, The (1999)', 'Shawshank
Redemption, The (1994)', 'Casino (1995)', 'Beautiful Mind, A (2001)']
194 ['Shawshank Redemption, The (1994)', 'Good Will Hunting (1997)',
'Ran (1985)', 'Fight Club (1999)', "Schindler's List (1993)"]
299 ['Lives of Others, The (Das leben der Anderen) (2006)', 'Thank You
for Smoking (2006)', 'Intouchables (2011)', 'There Will Be Blood
(2007)', 'Shawshank Redemption, The (1994)']
13 ['Lawrence of Arabia (1962)', 'Dr. Strangelove or: How I Learned to
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The (1957)', 'Apocalypse Now (1979)', 'Star Wars: Episode IV - A New
Hope (1977)']
333 ['In the Mood For Love (Fa yeung nin wa) (2000)', 'Badlands
(1973)', "Guess Who's Coming to Dinner (1967)", 'Streetcar Named
Desire, A (1951)', 'The Intern (2015)']
48 ['Rear Window (1954)', 'Life Is Beautiful (La Vita è bella)
(1997)', 'Inside Job (2010)', 'Philadelphia Story, The (1940)', 'Boot,
Das (Boat, The) (1981)']
584 ['Shawshank Redemption, The (1994)', 'Hoop Dreams (1994)'
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'Beautiful Mind, A (2001)']
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Hand Luke (1967)', 'Touch of Evil (1958)', 'High Noon (1952)']
181 ['Hoop Dreams (1994)', 'Horrible Bosses 2 (2014)', 'Great Escape,
The (1963)', 'The Intern (2015)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)']
192 ['His Girl Friday (1940)', 'Hoop Dreams (1994)', 'Third Man, The
(1949)', 'High Noon (1952)', 'North by Northwest (1959)']
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(1975)", 'Usual Suspects, The (1995)']
583 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Happiness
(1998)', 'His Girl Friday (1940)', 'Streetcar Named Desire, A (1951)',
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inseglet, Det) (1957)', 'Philadelphia Story, The (1940)', 'Notorious
(1946)', 'Lawrence of Arabia (1962)']
575 ['Touch of Evil (1958)', 'Eternal Sunshine of the Spotless Mind
(2004)', 'Shawshank Redemption, The (1994)', 'Cool Hand Luke (1967)',
'Godfather, The (1972)']
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558 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Harold and
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and Love the Bomb (1964)']
136 ['There Will Be Blood (2007)', 'Grave of the Fireflies (Hotaru no
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26 ['Chinatown (1974)', 'There Will Be Blood (2007)', 'Touch of Evil
(1958)', 'Dr. Strangelove or: How I Learned to Stop Worrying and Love
the Bomb (1964)', 'Brazil (1985)']
134 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)', 'Persepolis (2007)', 'Amadeus (1984)', 'American History X (1998)']
273 ['Rear Window (1954)', 'Good, the Bad and the Ugly, The (Buono, il
brutto, il cattivo, Il) (1966)', 'Iron Giant, The (1999)', 'Shawshank
Redemption, The (1994)', 'Wallace & Gromit: The Wrong Trousers
(1993)'1
316 ['Philadelphia Story, The (1940)', 'Touch of Evil (1958)',
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of Arabia (1962)']
535 ['There Will Be Blood (2007)', 'Touch of Evil (1958)', 'Celebration, The (Festen) (1998)', 'American History X (1998)',
'Laputa: Castle in the Sky (Tenkû no shiro Rapyuta) (1986)']
371 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
(1985)', 'Shawshank Redemption, The (1994)', 'His Girl Friday (1940)']
208 ['Brazil (1985)', 'Rear Window (1954)', 'Persuasion (1995)', 'Fight Club (1999)', 'Streetcar Named Desire, A (1951)']
478 ['Hellraiser (1987)', 'What Dreams May Come (1998)', 'Lives of
Others, The (Das leben der Anderen) (2006)', 'Others, The (2001)',
'Life Is Beautiful (La Vita è bella) (1997)'l
87 ['Lawrence of Arabia (1962)', 'Touch of Evil (1958)', 'In the Mood
For Love (Fa yeung nin wa) (2000)', "Guess Who's Coming to Dinner
(1967)", 'Streetcar Named Desire, A (1951)']
547 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
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185 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
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(2000)']
20 ['Cool Hand Luke (1967)', 'Cinema Paradiso (Nuovo cinema Paradiso)
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Desire, A (1951)']
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Window (1954)', 'Philadelphia Story, The (1940)', 'Shawshank
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347 ['High Noon (1952)', 'Streetcar Named Desire, A (1951)'
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the River Kwai, The (1957)']
341 ['Touch of Evil (1958)', 'Streetcar Named Desire, A (1951)',
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of Glory (1957)']
485 ['Secrets & Lies (1996)', 'Philadelphia Story, The (1940)',
'Goodfellas (1990)', 'Lone Star (1996)', 'Happiness (1998)']
321 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Harold and
Maude (1971)', 'Brazil (1985)', 'In the Mood For Love (Fa yeung nin
wa) (2000)', "Howl's Moving Castle (Hauru no ugoku shiro) (2004)"]
143 ['Harold and Maude (1971)', 'Richard III (1995)', "Guess Who's
Coming to Dinner (1967)", 'Disclosure (1994)', 'Waiting for Guffman
(1996)'
491 ['His Girl Friday (1940)', 'Double Indemnity (1944)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'To Catch
a Thief (1955)'l
154 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
507 ['Hoop Dreams (1994)', 'Gosford Park (2001)', 'Goodbye Girl, The
(1977)', 'Three Colors: White (Trzy kolory: Bialy) (1994)', 'Iron
Giant, The (1999)'l
530 ['North by Northwest (1959)', "One Flew Over the Cuckoo's Nest
(1975)", 'Intouchables (2011)', 'Gran Torino (2008)', 'There Will Be
Blood (2007)']
451 ['Streetcar Named Desire, A (1951)', 'Celebration, The (Festen)
(1998)', 'Rear Window (1954)', 'Dr. Strangelove or: How I Learned to
Stop Worrying and Love the Bomb (1964)', "Amelie (Fabuleux destin
d'Amélie Poulain, Le) (2001)"]
293 ['Help, The (2011)', 'Inside Job (2010)', 'Philadelphia Story, The
(1940)', 'Social Network, The (2010)', 'Rebecca (1940)']
259 ['Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)', 'Cinema Paradiso
(Nuovo cinema Paradiso) (1989)', 'Full Metal Jacket (1987)', 'Inside
Job (2010)', 'Thank You for Smoking (2006)']
358 ['Doctor Dolittle (1967)', 'Spanish Prisoner, The (1997)', "Guess
Who's Coming to Dinner (1967)", 'Manchurian Candidate, The (1962)',
'Streetcar Named Desire, A (1951)']
206 ['Secrets & Lies (1996)', 'Celebration, The (Festen) (1998)',
'Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)', 'Cool
Hand Luke (1967)']
306 ['Postman, The (Postino, Il) (1994)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'Lawrence of
Arabia (1962)', 'Shawshank Redemption, The (1994)', 'In Bruges
(2008) 1
255 ['Specialist, The (1994)', 'Client, The (1994)', "Dante's Peak
(1997)", 'Déjà Vu (Deja Vu) (2006)', 'Proposal, The (2009)']
506 ['Jean de Florette (1986)', 'Nixon (1995)', 'Mister Roberts
(1955)', 'Forbidden Planet (1956)', 'Twelfth Night (1996)']
442 ['Nightcrawler (2014)', 'Horrible Bosses 2 (2014)', 'Inside Job
(2010)', 'Streetcar Named Desire, A (1951)', 'Intouchables (2011)']
556 ['Grand Day Out with Wallace and Gromit, A (1989)', "Nobody's Fool
(1994)", 'Lawrence of Arabia (1962)', 'Streetcar Named Desire, A
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(1951)', 'Doctor Zhivago (1965)']
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(1951)', "Rosemary's Baby (1968)", 'Lawrence of Arabia (1962)', 'Touch
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546 ['Harold and Maude (1971)', 'Help, The (2011)', 'Eastern Promises
(2007)', 'Blind Side, The (2009)', 'Closer (2004)']
150 ['Dark Knight, The (2008)', 'Coco (2017)', 'His Girl Friday
(1940)', 'Unforgiven (1992)', 'RocknRolla (2008)']
270 ["Guess Who's Coming to Dinner (1967)", 'Strangers on a Train
(1951)', 'Argo (2012)', '9 (2009)', 'Lone Star (1996)']
252 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Celebration, The (Festen) (1998)', 'Ran
(1985)']
576 ['Tangled (2010)', 'The Hunger Games: Mockingjay - Part 1 (2014)',
'Mississippi Burning (1988)', 'Anchorman: The Legend of Ron Burgundy
(2004)', 'The Hobbit: The Battle of the Five Armies (2014)']
236 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
257 ['Spy (2015)', 'Children of a Lesser God (1986)', 'Nightcrawler
(2014)', 'Legend of Drunken Master, The (Jui kuen II) (1994)', "Guess
Who's Coming to Dinner (1967)"]
163 ["Monty Python's And Now for Something Completely Different
(1971)", 'Notorious (1946)', 'Bonnie and Clyde (1967)', 'Date Night (2010)', 'Lives of Others, The (Das leben der Anderen) (2006)']
360 ['Shawshank Redemption, The (1994)', 'Hustler, The (1961)',
'Philadelphia Story, The (1940)', 'Fight Club (1999)', 'Cool Hand Luke
(1967)']
481 ['Help, The (2011)', 'Princess and the Frog, The (2009)', 'To
Catch a Thief (1955)', "Guess Who's Coming to Dinner (1967)",
'Prisoners (2013)']
92 ['Philadelphia Story, The (1940)', 'Lawrence of Arabia (1962)',
'Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'On the
Waterfront (1954)'l
578 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Shawshank Redemption, The (1994)', 'Sunset Blvd. (a.k.a. Sunset
Boulevard) (1950)', 'Hustler, The (1961)']
269 ['Secrets & Lies (1996)', 'Double Indemnity (1944)', 'Philadelphia
Story, The (1940)', 'Lawrence of Arabia (1962)', 'Dr. Strangelove or:
How I Learned to Stop Worrying and Love the Bomb (1964)'l
320 ['Grave of the Fireflies (Hotaru no haka) (1988)', 'Hoop Dreams
(1994)', "Guess Who's Coming to Dinner (1967)", 'It Happened One Night
(1934)', 'Great Dictator, The (1940)']
12 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Ran (1985)', 'Shawshank Redemption, The (1994)', 'Sunset
Blvd. (a.k.a. Sunset Boulevard) (1950)'l
146 ['Life Is Beautiful (La Vita è bella) (1997)', 'Streetcar Named
Desire, A (1951)', 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)',
'Spirited Away (Sen to Chihiro no kamikakushi) (2001)', 'Inception
```

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(2010)'1
544 ['His Girl Friday (1940)', 'Double Indemnity (1944)', 'It Happened
One Night (1934)', 'Philadelphia Story, The (1940)', 'Fog of War:
Eleven Lessons from the Life of Robert S. McNamara, The (2003)']
147 ['The Intern (2015)', 'Mission: Impossible - Rogue Nation (2015)',
'Fried Green Tomatoes (1991)', 'Across the Universe (2007)', 'Harold &
Kumar Escape from Guantanamo Bav (2008)'1
158 ['Doctor Zhivago (1965)', 'Hustler, The (1961)', 'High Noon
(1952)', 'His Girl Friday (1940)', 'Father of the Bride (1950)']
175 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Rear Window (1954)', 'Creature Comforts (1989)', 'Sweet
Hereafter, The (1997)']
151 ['Paths of Glory (1957)', 'Celebration, The (Festen) (1998)',
'Hustler, The (1961)', "Once Upon a Time in the West (C'era una volta
il West) (1968)", 'Lawrence of Arabia (1962)']
214 ['Persepolis (2007)', 'Lord of the Rings: The Return of the King,
The (2003)', 'Matrix, The (1999)', 'Boondock Saints, The (2000)',
'Persuasion (1995)']
406 ['Dallas Buyers Club (2013)', 'The Nice Guys (2016)', 'Warrior
(2011)', 'Dark Knight, The (2008)', 'Stardust (2007)']
429 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
# Get the top recommendations for specific user....
user id = 608
recommendations = get top n k(predictions k,minimum num ratings=100,
n=5)[user id]
# Print the recommended movie IDs and predicted ratings
print([(iid, rating) for (iid, rating) in recommendations])
[('Dark Knight, The (2008)', 4.215843395524766), ('Prisoners (2013)',
4.212079225026457), ('Spotlight (2015)', 4.193783809287072),
('Departed, The (2006)', 4.1654399244949305), ('There Will Be Blood
(2007)', 4.147380483286304)]
```

KNN Recommendation System Results:

So the function ran and created a list of users and estimated ratings like we hoped. To make a bit more sense of it in the cell above I retrieved the recommendations of a specific user. Those results looked very appropriate!

SVD Model

Just like with the KNN model we are going to fit our chosen SVD parameters to the dataset to allow us to make predictions in our function

```
# From our grid search:
#Best value for SVD -RMSE: 0.8511 ; MAE: 0.652
```

```
#Optimal params RMSE = {'n epochs': 50, 'lr all': 0.01, 'reg all':
0.1
#optimal params MAE = {'n epochs': 50, 'lr all': 0.01, 'reg all': 0.1}
svd algo = SVD(n epochs=50, lr all=0.01, reg all=0.1)
svd algo.fit(dataset)
svd predictions = svd algo.test(testset)
SVD Recommendation Function
The same function with SVD algo.
from collections import defaultdict
def get top n(svd predictions, minimum num ratings= 50, n=5):
    """Return the top-N recommendation for each user from a set of
predictions.
    Aras:
        predictions(list of Prediction objects): The list of
predictions, as
            returned by the test method of an algorithm.
        n(int): The number of recommendation to output for each user.
Default
            is 10.
    Returns:
    A dict where keys are user (raw) ids and values are lists of
tuples:
        [(raw item id, rating estimation), ...] of size n.
    # Map the predictions to each user
    top n = defaultdict(list)
    for uid, iid, true_r, est, _ in svd_predictions:
        top_n[uid].append((iid, est))
    # Sort the predictions for each user and retrieve the k highest
ones
    for uid, user ratings in top n.items():
        user ratings.sort(key=lambda x: x[1], reverse=True)
        top n[uid] = user ratings[:n]
    return top n
top n = get top n(svd predictions, n=5)
```

```
# Print the recommended items for each user
for uid, user ratings in top n.items():
    print(uid, [iid for (iid, _) in user_ratings])
195 ['Grand Day Out with Wallace and Gromit, A (1989)', 'Battlestar
Galactica (2003)', 'Touch of Evil (1958)', 'His Girl Friday (1940)',
'Wallace & Gromit: The Best of Aardman Animation (1996)'l
90 ['Grand Day Out with Wallace and Gromit, A (1989)', 'Paths of Glory
(1957)', 'Yojimbo (1961)', "Guess Who's Coming to Dinner (1967)", 'Ran
(1985)'1
603 ['Hustler, The (1961)', 'Yojimbo (1961)', 'Maltese Falcon, The
(a.k.a. Dangerous Female) (1931)', 'Bicycle Thieves (a.k.a. The
Bicycle Thief) (a.k.a. The Bicycle Thieves) (Ladri di biciclette)
(1948)', '12 Angry Men (1957)']
290 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Streetcar Named Desire, A (1951)', 'Ran (1985)', 'Hustler, The
(1961)'
474 ['Celebration, The (Festen) (1998)', 'Spotlight (2015)', 'Snatch
(2000)', 'Logan (2017)', 'Dallas Buyers Club (2013)']
391 ['Spirited Away (Sen to Chihiro no kamikakushi) (2001)', 'Cool
Hand Luke (1967)', 'My Fair Lady (1964)', "Guess Who's Coming to
Dinner (1967)", 'Great Escape, The (1963)']
74 ['Streetcar Named Desire, A (1951)', 'Paths of Glory (1957)',
"Guess Who's Coming to Dinner (1967)", 'Yojimbo (1961)', 'Philadelphia
Story, The (1940)'
372 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Matrix, The (1999)', 'Saving Private Ryan (1998)', 'Rebecca (1940)']
221 ['Paths of Glory (1957)', "Guess Who's Coming to Dinner (1967)",
'Hustler, The (1961)', 'Celebration, The (Festen) (1998)', 'Touch of
Evil (1958)'l
275 ["Guess Who's Coming to Dinner (1967)", 'Battlestar Galactica
(2003)', 'Yojimbo (1961)', 'Ran (1985)', 'Paths of Glory (1957)']
606 ['Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Yojimbo (1961)', 'His Girl Friday (1940)', 'Touch of Evil (1958)']
590 ['Paths of Glory (1957)', 'Wallace & Gromit: The Best of Aardman
Animation (1996)', 'Streetcar Named Desire, A (1951)', 'Secrets & Lies
(1996)', 'Ran (1985)']
177 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Grave of the
Fireflies (Hotaru no haka) (1988)', 'Double Indemnity (1944)', 'Paths
of Glory (1957)']
140 ['Cinema Paradiso (Nuovo cinema Paradiso) (1989)', 'His Girl
Friday (1940)', 'Paths of Glory (1957)', 'Streetcar Named Desire, A
(1951)', 'Inside Job (2010)']
27 ['Shine (1996)', 'Cinema Paradiso (Nuovo cinema Paradiso) (1989)',
'His Girl Friday (1940)', 'Shawshank Redemption, The (1994)', 'Three
Colors: Red (Trois couleurs: Rouge) (1994)']
488 ['Three Colors: Red (Trois couleurs: Rouge) (1994)', 'Creature
Comforts (1989)', 'Ran (1985)', 'Third Man, The (1949)', 'Cinema
Paradiso (Nuovo cinema Paradiso) (1989)']
587 ['Dead Poets Society (1989)', 'Mr. Smith Goes to Washington
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(1939)', 'His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Dead Man
(1995)'1
322 ['Ran (1985)', 'The Artist (2011)', 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Paths of Glory (1957)']
265 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Ran (1985)',
'Grand Day Out with Wallace and Gromit, A (1989)', 'Star Wars: Episode
VI - Return of the Jedi (1983)'l
113 ['Secrets & Lies (1996)', 'Sweet Hereafter, The (1997)', 'Cinema
Paradiso (Nuovo cinema Paradiso) (1989)', 'Seven Samurai (Shichinin no
samurai) (1954)', 'Philadelphia Story, The (1940)']
105 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Ran (1985)', 'Touch of Evil (1958)']
414 ["Guess Who's Coming to Dinner (1967)", 'Touch of Evil (1958)', 'Yojimbo (1961)', 'Secrets & Lies (1996)', 'Hustler, The (1961)']
305 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'His Girl Friday (1940)', 'Philadelphia Story, The (1940)', 'Touch of
Evil (1958)'l
199 ['Yojimbo (1961)', 'Philadelphia Story, The (1940)', 'Hustler, The
(1961)', 'His Girl Friday (1940)', '12 Angry Men (1957)']
599 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'Ran (1985)', 'Celebration, The (Festen) (1998)', 'Creature Comforts
(1989)'
421 ['Philadelphia Story, The (1940)', 'Streetcar Named Desire, A
(1951)', 'His Girl Friday (1940)', 'Dr. Strangelove or: How I Learned
to Stop Worrying and Love the Bomb (1964)', 'Touch of Evil (1958)'] 339 ["Guess Who's Coming to Dinner (1967)", 'Battlestar Galactica
(2003)', 'Secrets & Lies (1996)', 'Ran (1985)', 'Streetcar Named
Desire, A (1951)'l
469 ["Guess Who's Coming to Dinner (1967)", 'Celebration, The (Festen)
(1998)', 'Hustler, The (1961)', 'The Artist (2011)', 'Ran (1985)']
249 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)', 'Ran
(1985)']
312 ["Guess Who's Coming to Dinner (1967)", 'Touch of Evil (1958)'
'Godfather: Part II, The (1974)', 'Streetcar Named Desire, A (1951)',
'Godfather, The (1972)']
397 ['Secrets & Lies (1996)', 'Yojimbo (1961)', "Guess Who's Coming to
Dinner (1967)", 'Philadelphia Story, The (1940)', 'Double Indemnity
84 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'Paths of Glory (1957)', 'Grave of the Fireflies (Hotaru no haka)
(1988)', 'Celebration, The (Festen) (1998)']
118 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Yojimbo (1961)', 'Touch of Evil (1958)']
182 ['Paths of Glory (1957)', "Guess Who's Coming to Dinner (1967)",
'Hustler, The (1961)', '12 Angry Men (1957)', 'Cool Hand Luke (1967)'] 285 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Hustler, The (1961)', "Miller's Crossing (1990)", 'Secrets & Lies
(1996)'
309 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
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'Wallace & Gromit: The Wrong Trousers (1993)', 'Paths of Glory
(1957)', 'Secrets & Lies (1996)']
32 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'His Girl Friday (1940)', 'It Happened One Night (1934)', 'Secrets &
Lies (1996)'l
568 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Celebration, The (Festen) (1998)', 'Touch of Evil (1958)',
'Philadelphia Story, The (1940)']
357 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Paths of Glory (1957)', 'Seventh Seal, The
(Siunde inseglet, Det) (1957)']
387 ['Paths of Glory (1957)', "Guess Who's Coming to Dinner (1967)",
'Secrets & Lies (1996)', 'Hustler, The (1961)', 'Philadelphia Story,
The (1940)'l
171 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Celebration, The (Festen) (1998)', 'Ran
(1985) ' ]
131 ['Paths of Glory (1957)', 'Secrets & Lies (1996)', "Guess Who's
Coming to Dinner (1967)", 'His Girl Friday (1940)', 'Hustler, The
(1961)'1
198 ['Wallace & Gromit: The Best of Aardman Animation (1996)',
'Prisoners (2013)', "Guess Who's Coming to Dinner (1967)", 'Rebecca
(1940)', 'Three Colors: Red (Trois couleurs: Rouge) (1994)']
336 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'His Girl Friday (1940), 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Ran (1985)']
346 ["Guess Who's Coming to Dinner (1967)", 'Yojimbo (1961)'
'Streetcar Named Desire, A (1951)', 'Paths of Glory (1957)', 'Secrets
& Lies (1996)'l
156 ['Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)',
"Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Double Indemnity (1944)']
318 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'His Girl Friday (1940)', 'Ran (1985)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)']
580 ['Battlestar Galactica (2003)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Spotlight (2015)', 'Akira (1988)', 'Big
Sleep, The (1946)']
600 ['Yojimbo (1961)', 'Three Colors: Red (Trois couleurs: Rouge)
(1994)', "Miller's Crossing (1990)", 'Paths of Glory (1957)', '12
Angry Men (1957)'l
390 ['Secrets & Lies (1996)', 'His Girl Friday (1940)', "Guess Who's
Coming to Dinner (1967)", 'Donnie Darko (2001)', 'Grave of the
Fireflies (Hotaru no haka) (1988)']
325 ['Yojimbo (1961)', 'Dr. Strangelove or: How I Learned to Stop
Worrying and Love the Bomb (1964)', 'Paths of Glory (1957)', 'Godfather: Part II, The (1974)', 'Monty Python and the Holy Grail
(1975)'
23 ['Streetcar Named Desire, A (1951)', 'Secrets & Lies (1996)', 'His
Girl Friday (1940)', 'Celebration, The (Festen) (1998)', "Guess Who's
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Coming to Dinner (1967)"]
64 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'His Girl Friday (1940)', 'Hustler, The (1961)', 'Secrets & Lies
(1996)'1
597 ['Paths of Glory (1957)', "Guess Who's Coming to Dinner (1967)",
'Streetcar Named Desire, A (1951)', 'Casablanca (1942)', 'Touch of
Evil (1958)'l
66 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A (1951)', 'Celebration, The (Festen) (1998)', 'Paths of Glory (1957)',
'Secrets & Lies (1996)']
86 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)'l
344 ['Star Trek IV: The Voyage Home (1986)', "It's a Wonderful Life
(1946)", 'Back to the Future Part II (1989)', 'Star Trek VI: The
Undiscovered Country (1991)', 'Star Wars: Episode V - The Empire
Strikes Back (1980)'l
170 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Seventh Seal, The (Sjunde inseglet, Det)
(1957)', 'Streetcar Named Desire, A (1951)']
593 ["Guess Who's Coming to Dinner (1967)", 'Battlestar Galactica
(2003)', 'African Queen, The (1951)', 'Rear Window (1954)', 'Paths of
Glory (1957)']
209 ['Yojimbo (1961)', 'Paths of Glory (1957)', 'Dr. Strangelove or:
How I Learned to Stop Worrying and Love the Bomb (1964)', "Guess Who's
Coming to Dinner (1967)", 'Hustler, The (1961)']
589 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A (1951)', 'His Girl Friday (1940)', 'Grave of the Fireflies (Hotaru no
haka) (1988)', '12 Angry Men (1957)']
433 ['Paths of Glory (1957)', 'Three Colors: Red (Trois couleurs:
Rouge) (1994)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)',
'His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)"] 126 ['White Squall (1996)', 'Remember the Titans (2000)', 'Patton
(1970)', '10 Things I Hate About You (1999)', "Mr. Holland's Opus
(1995)"1
304 ['His Girl Friday (1940)', 'Patton (1970)', 'Great Escape, The
(1963)', "Guess Who's Coming to Dinner (1967)", 'Battlestar Galactica
(2003) 1
331 ['Requiem for a Dream (2000)', 'Paths of Glory (1957)', 'Yojimbo
(1961)', 'Rear Window (1954)', '12 Angry Men (1957)']
46 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Ran (1985)', 'Raiders of the Lost Ark (Indiana Jones and the Raiders
of the Lost Ark) (1981)', 'Wallace & Gromit: The Wrong Trousers
(1993)']
292 ['His Girl Friday (1940)', 'Star Trek IV: The Voyage Home (1986)',
"Guess Who's Coming to Dinner (1967)", 'Intouchables (2011)', 'Eastern
Promises (2007)'1
470 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Paths of Glory (1957)', 'Secrets & Lies (1996)', 'Ran (1985)']
588 ['Paths of Glory (1957)', "Guess Who's Coming to Dinner (1967)",
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'His Girl Friday (1940)', 'Touch of Evil (1958)', 'Star Wars: Episode
IV - A New Hope (1977)']
592 ["Guess Who's Coming to Dinner (1967)", 'Ran (1985)', 'His Girl Friday (1940)', 'Lawrence of Arabia (1962)', 'Secrets & Lies (1996)']
135 ['Paths of Glory (1957)', 'Yojimbo (1961)', 'Dr. Strangelove or:
How I Learned to Stop Worrying and Love the Bomb (1964)', 'Streetcar
Named Desire, A (1951)', "Guess Who's Coming to Dinner (1967)"]
99 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Streetcar Named Desire, A (1951)', 'Celebration, The (Festen)
(1998)', 'His Girl Friday (1940)']
498 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Cinema Paradiso (Nuovo cinema Paradiso) (1989)', 'Paths of Glory
(1957)', 'Outlaw Josey Wales, The (1976)']
125 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Secrets & Lies (1996)', 'Yojimbo (1961)', 'Hustler, The (1961)']
314 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Great Escape, The (1963)', 'Third Man, The (1949)', 'Casablanca
(1942) ']
279 ['Yojimbo (1961)', 'His Girl Friday (1940)', "Guess Who's Coming
to Dinner (1967)", 'Paths of Glory (1957)', 'Secrets & Lies (1996)']
317 ['Celebration, The (Festen) (1998)', 'Touch of Evil (1958)',
'Grand Day Out with Wallace and Gromit, A (1989)', 'Ran (1985)',
'Paths of Glory (1957)']
43 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)'
107 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Great Escape, The (1963)', 'Forrest Gump (1994)', 'Paths of Glory
(1957)'1
152 ["Guess Who's Coming to Dinner (1967)", 'Hustler, The (1961)',
'Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)', 'Paths of
Glory (1957)'l
435 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Paths of Glory (1957)', 'Celebration, The (Festen) (1998)',
'His Girl Friday (1940)']
382 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'His Girl Friday (1940), 'Secrets & Lies (1996)', 'Yojimbo (1961)']
72 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Streetcar Named
Desire, A (1951)']
256 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Rebecca (1940)', 'Billy Elliot (2000)', 'Grave of the Fireflies
(Hotaru no haka) (1988)']
34 ['Outlaw Josey Wales, The (1976)', 'His Girl Friday (1940)', 'Grand
Day Out with Wallace and Gromit, A (1989)', 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'Living in
Oblivion (1995)']
461 ['Stranger than Fiction (2006)', 'Being There (1979)', 'Life Is
Beautiful (La Vita è bella) (1997)', 'Grave of the Fireflies (Hotaru
no haka) (1988)', 'Dallas Buyers Club (2013)']
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526 ['His Girl Friday (1940)', 'Paths of Glory (1957)', "Guess Who's
Coming to Dinner (1967)", 'Ran (1985)', 'The Artist (2011)']
483 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'His Girl Friday (1940)', 'Yojimbo (1961)', 'Philadelphia Story, The
(1940)'1
54 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
261 ["Guess Who's Coming to Dinner (1967)", 'The Artist (2011)',
"Amelie (Fabuleux destin d'Amélie Poulain, Le) (2001)", 'Touch of Evil
(1958)', 'Philadelphia Story, The (1940)']
88 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Touch of Evil (1958)', 'Secrets & Lies (1996)', 'His Girl Friday
(1940)']
420 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Paths of Glory (1957)', 'Streetcar Named
Desire, A (1951)'l
343 ["Guess Who's Coming to Dinner (1967)", 'The Artist (2011)', 'Ran
(1985)', 'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'His Girl
Friday (1940)']
16 ['His Girl Friday (1940)', 'Streetcar Named Desire, A (1951)',
"Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'Celebration, The (Festen) (1998)']
258 ["Guess Who's Coming to Dinner (1967)", 'Yojimbo (1961)', 'Life Is
Beautiful (La Vita è bella) (1997)', 'Pulp Fiction (1994)', 'Paths of
Glory (1957)'l
130 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'His Girl Friday (1940)', 'Double Indemnity (1944)', 'Paths of Glory
(1957) ']
282 ["Guess Who's Coming to Dinner (1967)", 'Cinema Paradiso (Nuovo
cinema Paradiso) (1989)', 'His Girl Friday (1940)', 'Paths of Glory
(1957)', 'Streetcar Named Desire, A (1951)']
47 ["Guess Who's Coming to Dinner (1967)", 'Battlestar Galactica
(2003)', 'His Girl Friday (1940)', 'Rebecca (1940)', 'Secrets & Lies
(1996) ' 1
462 ['Yojimbo (1961)', 'Double Indemnity (1944)', 'Bridge on the River
Kwai, The (1957)', 'Philadelphia Story, The (1940)', 'Secrets & Lies
(1996) ' 1
203 ['Touch of Evil (1958)', 'Lawrence of Arabia (1962)', "Guess Who's
Coming to Dinner (1967)", 'Ran (1985)', 'Secrets & Lies (1996)']
410 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Paths of Glory (1957)', 'Celebration, The (Festen) (1998)', 'Secrets
& Lies (1996)']
559 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Lawrence of Arabia (1962)', 'Secrets & Lies (1996)', 'Touch of Evil
(1958)']
515 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
473 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', "Amelie
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96 ['Blade Runner (1982)', 'Celebration, The (Festen) (1998)', 'Dr.
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51 ['Streetcar Named Desire, A (1951)', 'Spirited Away (Sen to Chihiro
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Le) (2001)", 'Wallace & Gromit: The Wrong Trousers (1993)']
153 ['Hedwig and the Angry Inch (2000)', 'Cinema Paradiso (Nuovo
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no samurai) (1954)', 'Eternal Sunshine of the Spotless Mind (2004)',
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Raiders of the Lost Ark) (1981)', 'Inside Job (2010)', "Guess Who's
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(1997)', 'His Girl Friday (1940)', 'Breakfast Club, The (1985)']
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(1996)'
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(1996)', 'Star Trek VI: The Undiscovered Country (1991)', 'Coco
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Dragon (2010)', 'Cinema Paradiso (Nuovo cinema Paradiso) (1989)',
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(2009)', 'Secrets & Lies (1996)', 'Matrix, The (1999)', "Guess Who's
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'Celebration, The (Festen) (1998)', 'Rebecca (1940)']
536 ['Celebration, The (Festen) (1998)', 'Ran (1985)', 'Dr.
Strangelove or: How I Learned to Stop Worrying and Love the Bomb
(1964)', "Guess Who's Coming to Dinner (1967)", 'Paths of Glory
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(1957)'1
264 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'High Noon (1952)', 'Wallace & Gromit: The
Best of Aardman Animation (1996)']
395 ['Secrets & Lies (1996)', 'His Girl Friday (1940)', 'Seventh Seal,
The (Sjunde inseglet, Det) (1957)', 'Big Sleep, The (1946)',
'Celebration, The (Festen) (1998)'l
173 ["Guess Who's Coming to Dinner (1967)", 'Great Escape, The (1963)', 'His Girl Friday (1940)', 'Paths of Glory (1957)', 'North by
Northwest (1959)']
359 ["Guess Who's Coming to Dinner (1967)", "Singin' in the Rain
(1952)", 'Grave of the Fireflies (Hotaru no haka) (1988)', 'Secrets &
Lies (1996)', 'It Happened One Night (1934)'
243 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'His Girl Friday (1940)', 'Double Indemnity (1944)', 'Three Colors:
Red (Trois couleurs: Rouge) (1994)'l
402 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Ran (1985)', 'Rebecca (1940)']
172 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Creature Comforts (1989)', 'Paths of Glory (1957)', 'Secrets & Lies
(1996)'
3 ['From Dusk Till Dawn (1996)', 'Legend of Drunken Master, The (Jui
kuen II) (1994)', 'Matrix, The (1999)', 'Harold and Maude (1971)',
'Secrets & Lies (1996)']
311 ['Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'The Artist
(2011)', 'Celebration, The (Festen) (1998)', 'Touch of Evil (1958)',
'Happiness (1998)']
427 ['Godfather, The (1972)', 'Paths of Glory (1957)', 'Touch of Evil
(1958)', 'Hustler, The (1961)', 'Godfather: Part II, The (1974)']
355 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'His Girl Friday (1940)', 'Celebration, The (Festen) (1998)',
'Battlestar Galactica (2003)']
281 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Philadelphia
Story, The (1940)', "Guess Who's Coming to Dinner (1967)", 'Touch of
Evil (1958)'l
207 ['His Girl Friday (1940)', 'African Queen, The (1951)', 'On the
Waterfront (1954)', 'Secrets & Lies (1996)', 'To Catch a Thief
(1955)'1
271 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Streetcar Named Desire, A (1951)', 'Secrets & Lies (1996)', 'Paths of
Glory (1957)'l
571 ["Guess Who's Coming to Dinner (1967)", 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)', 'Secrets & Lies (1996)', 'His Girl Friday
(1940)', 'Grave of the Fireflies (Hotaru no haka) (1988)']
383 ['Dallas Buyers Club (2013)', 'His Girl Friday (1940)', 'Cinema
Paradiso (Nuovo cinema Paradiso) (1989)', 'Wallace & Gromit: The Best
of Aardman Animation (1996)', "Guess Who's Coming to Dinner (1967)"]
164 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Chariots of Fire (1981)', 'Star Wars: Episode IV - A New Hope
(1977)', 'Secrets & Lies (1996)']
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431 ["Guess Who's Coming to Dinner (1967)", 'Dr. Strangelove or: How I
Learned to Stop Worrying and Love the Bomb (1964)', 'Touch of Evil
(1958)', 'Ran (1985)', 'Cinema Paradiso (Nuovo cinema Paradiso)
(1989)'1
194 ['His Girl Friday (1940)', 'Paths of Glory (1957)', "Guess Who's
Coming to Dinner (1967)", 'Outlaw Josey Wales, The (1976)', 'Secrets &
Lies (1996)'l
299 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Philadelphia Story, The (1940)', 'Secrets & Lies (1996)', 'Three
Colors: Red (Trois couleurs: Rouge) (1994)']
13 ["Guess Who's Coming to Dinner (1967)", 'Lawrence of Arabia
(1962)', 'Paths of Glory (1957)', 'His Girl Friday (1940)', 'Touch of
Evil (1958)']
333 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Celebration, The
(Festen) (1998)', 'Secrets & Lies (1996)']
48 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'Ran (1985)', 'His Girl Friday (1940)', 'Creature Comforts (1989)']
584 ['Remember the Titans (2000)', 'White Squall (1996)', "Mr.
Holland's Opus (1995)", 'His Girl Friday (1940)', 'Contact (1997)']
458 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Rebecca
(1940)', "Guess Who's Coming to Dinner (1967)", 'Legend of Drunken
Master, The (Jui kuen II) (1994)']
181 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)".
'Great Escape, The (1963)', "It's a Wonderful Life (1946)", 'Hoop
Dreams (1994)']
192 ['His Girl Friday (1940)', 'Remember the Titans (2000)', 'Harry
Potter and the Chamber of Secrets (2002)', 'Harry Potter and the Order
of the Phoenix (2007)', 'Rebecca (1940)']
604 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'His Girl Friday (1940)', 'Dogville (2003)', 'It Happened One Night
(1934) ' ]
583 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'His Girl Friday (1940)', 'Rebecca (1940)', 'Streetcar Named Desire, A
(1951)'1
504 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Ran (1985)', 'Secrets & Lies (1996)', 'Seventh Seal, The (Sjunde
inseglet, Det) (1957)']
575 ['Yojimbo (1961)', 'His Girl Friday (1940)', "Guess Who's Coming
to Dinner (1967)", 'It Happened One Night (1934)', 'Secrets & Lies
(1996)'1
558 ['His Girl Friday (1940)', 'Celebration, The (Festen) (1998)',
"Guess Who's Coming to Dinner (1967)", 'Inside Job (2010)', 'Grave of
the Fireflies (Hotaru no haka) (1988)'l
136 ['Dallas Buyers Club (2013)', 'Celebration, The (Festen) (1998)',
'Patton (1970)', 'Touch of Evil (1958)', 'Streetcar Named Desire, A
(1951) ' ]
26 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Secrets & Lies (1996)', 'Yojimbo (1961)', 'Paths of Glory (1957)']
134 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
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'Secrets & Lies (1996)', 'Touch of Evil (1958)', 'Celebration, The
(Festen) (1998)'l
273 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)', 'Secrets & Lies (1996)', 'Memento (2000)', 'His Girl Friday (1940)']
316 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'Philadelphia Story, The (1940)', 'Streetcar Named Desire, A (1951)',
'His Girl Friday (1940)']
535 ['Godfather: Part II, The (1974)', 'Star Wars: Episode IV - A New Hope (1977)', 'Touch of Evil (1958)', 'Paths of Glory (1957)',
'Yojimbo (1961)']
371 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
208 ['Celebration, The (Festen) (1998)', 'Secrets & Lies (1996)',
"Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)', 'It
Happened One Night (1934)'l
478 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', "Guess Who's
Coming to Dinner (1967)", 'Philadelphia Story, The (1940)',
'Celebration, The (Festen) (1998)']
87 ['Paths of Glory (1957)', 'Secrets & Lies (1996)', 'His Girl Friday
(1940)', "Guess Who's Coming to Dinner (1967)", 'Streetcar Named
Desire, A (1951)']
547 ['Yojimbo (1961)', 'On the Waterfront (1954)', 'His Girl Friday (1940)', 'Ran (1985)', 'Celebration, The (Festen) (1998)']
185 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'His Girl Friday (1940)', 'Shawshank Redemption, The (1994)', "Once
Upon a Time in the West (C'era una volta il West) (1968)"]
20 ['Cinema Paradiso (Nuovo cinema Paradiso) (1989)', 'Paths of Glory
(1957)', 'Princess Bride, The (1987)', 'Great Escape, The (1963)',
'Third Man, The (1949)']
401 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Secrets & Lies (1996)', 'Double Indemnity (1944)', 'Ran (1985)']
347 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'His Girl Friday (1940)', 'Outlaw Josey Wales, The (1976)', 'Ran
(1985)'
341 ['Ran (1985)', 'Paths of Glory (1957)', 'The Artist (2011)',
"Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)']
485 ['Remember the Titans (2000)', "Mr. Holland's Opus (1995)", 'Shrek
(2001)', 'Mr. Smith Goes to Washington (1939)', 'Billy Elliot (2000)']
321 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Ran (1985)', 'Secrets & Lies (1996)', 'Paths of Glory (1957)']
143 ['10 Things I Hate About You (1999)', 'Billy Elliot (2000)',
"Guess Who's Coming to Dinner (1967)", '21 Jump Street (2012)', 'Star
Trek IV: The Voyage Home (1986)'l
491 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', 'Ran (1985)',
"Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)']
154 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)']
507 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
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'Secrets & Lies (1996)', 'Rebecca (1940)', 'Paths of Glory (1957)'] 530 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Streetcar Named Desire, A (1951)', 'Ran (1985)', 'Touch of Evil
(1958)'1
451 ["Guess Who's Coming to Dinner (1967)", 'Streetcar Named Desire, A
(1951)', 'Paths of Glory (1957)', 'Life Is Beautiful (La Vita è bella)
         'Touch of Evil (1958)']
(1997)'.
293 ['His Girl Friday (1940)', 'Secrets & Lies (1996)', "Guess Who's
Coming to Dinner (1967)", 'Celebration, The (Festen) (1998)', 'Ran
(1985)'
259 ['Cinema Paradiso (Nuovo cinema Paradiso) (1989)', 'Dallas Buyers
Club (2013)', 'Dead Poets Society (1989)', 'Shallow Grave (1994)',
'Silver Linings Playbook (2012)'
358 ["Guess Who's Coming to Dinner (1967)", 'Sound of Music, The
(1965)', 'Shawshank Redemption, The (1994)', 'His Girl Friday (1940)',
'Casablanca (1942)'l
206 ['Paths of Glory (1957)', "Guess Who's Coming to Dinner (1967)",
'Streetcar Named Desire, A (1951)', 'Philadelphia Story, The (1940)',
"Schindler's List (1993)"1
306 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'His Girl Friday (1940)', 'Celebration, The (Festen) (1998)',
'Philadelphia Story, The (1940)']
255 ['Dark Knight Rises, The (2012)', 'Thor: Ragnarok (2017)', 'Ex
Machina (2015), 'Matrix, The (1999), 'Dark Knight, The (2008)]
506 ['In the Mood For Love (Fa yeung nin wa) (2000)', 'Hustler, The
(1961)', 'Creature Comforts (1989)', 'Double Indemnity (1944)', "Guess
Who's Coming to Dinner (1967)"]
442 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Grand Day Out with Wallace and Gromit, A
(1989)', 'Paths of Glory (1957)']
556 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Streetcar Named Desire, A (1951)', 'Seventh
Seal, The (Sjunde inseglet, Det) (1957)'l
521 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Secrets
& Lies (1996)']
546 ['Rebecca (1940)', 'His Girl Friday (1940)', 'Legend of Drunken
Master, The (Jui kuen II) (1994)', 'Fog of War: Eleven Lessons from
the Life of Robert S. McNamara, The (2003)', 'Spotlight (2015)']
150 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Secrets & Lies (1996)', 'Touch of Evil
(1958)'1
270 ['Wallace & Gromit: A Close Shave (1995)', 'Wallace & Gromit: The
Best of Aardman Animation (1996)', '12 Angry Men (1957)', 'Wallace & Gromit: The Wrong Trousers (1993)', "Guess Who's Coming to Dinner
(1967)"]
252 ["Guess Who's Coming to Dinner (1967)", 'Secrets & Lies (1996)',
'His Girl Friday (1940)', 'Paths of Glory (1957)', 'Ran (1985)']
576 ['His Girl Friday (1940)', 'Three Colors: Red (Trois couleurs:
Rouge) (1994)', 'Secrets & Lies (1996)', 'Big Sleep, The (1946)',
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'Yojimbo (1961)'l
236 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)', 'Ran
(1985)'1
257 ['Secrets & Lies (1996)', 'Ran (1985)', 'Fog of War: Eleven
Lessons from the Life of Robert S. McNamara, The (2003)', 'Prisoners
(2013)', 'Rebecca (1940)']
163 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)', 'Streetcar Named Desire, A (1951)', 'Celebration, The (Festen)
(1998)', 'Paths of Glory (1957)']
360 ["Guess Who's Coming to Dinner (1967)", 'Hustler, The (1961)',
'Seventh Seal, The (Sjunde inseglet, Det) (1957)', 'Third Man, The
(1949)', 'Ran (1985)']
481 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'It Happened One Night (1934)', 'Rebecca (1940)', 'Shawshank
Redemption, The (1994)'l
92 ['His Girl Friday (1940)', 'Celebration, The (Festen) (1998)',
'Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Streetcar Named Desire, A (1951)']
578 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'His Girl Friday (1940)', 'Rebecca (1940)', 'Ran (1985)']
269 ['12 Angry Men (1957)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'His Girl Friday (1940)', 'Wallace & Gromit:
A Close Shave (1995)']
320 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Secrets & Lies (1996)', 'Ran (1985)']
12 ['Secrets & Lies (1996)', "Guess Who's Coming to Dinner (1967)",
'Paths of Glory (1957)', 'Streetcar Named Desire, A (1951)',
'Celebration, The (Festen) (1998)'
146 ["Guess Who's Coming to Dinner (1967)", 'His Girl Friday (1940)',
'Secrets & Lies (1996)', 'Celebration, The (Festen) (1998)', 'Seventh
Seal, The (Sjunde inseglet, Det) (1957)']
544 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Ran (1985)', 'Rebecca (1940)', 'Secrets & Lies (1996)']
147 ['The Artist (2011)', 'Big Lebowski, The (1998)', 'Grand Day Out
with Wallace and Gromit, A (1989)', 'Pulp Fiction (1994)', 'Secrets &
Lies (1996)']
158 ['Secrets & Lies (1996)', 'Ran (1985)', 'His Girl Friday (1940)',
'Rebecca (1940)', 'Creature Comforts (1989)']
175 ['Philadelphia Story, The (1940)', "Guess Who's Coming to Dinner
(1967)", 'Streetcar Named Desire, A (1951)', 'Lawrence of Arabia
        'Godfather, The (1972)']
151 ['His Girl Friday (1940)', "Guess Who's Coming to Dinner (1967)",
'Secrets & Lies (1996)', 'Hoop Dreams (1994)', 'Ran (1985)']
214 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)',
'Secrets & Lies (1996)', 'His Girl Friday (1940)', 'Streetcar Named
Desire, A (1951)']
406 ['Boondock Saints, The (2000)', 'His Girl Friday (1940)', 'Life Is
Beautiful (La Vita è bella) (1997)', 'Donnie Darko (2001)', 'It
Happened One Night (1934)']
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429 ["Guess Who's Coming to Dinner (1967)", 'Paths of Glory (1957)', 'His Girl Friday (1940)', 'Celebration, The (Festen) (1998)', 'Streetcar Named Desire, A (1951)']

# Get the top recommendations for specific user...

user_id = 608
recommendations = get_top_n(svd_predictions,minimum_num_ratings=100, n=5)[user_id]

# Print the recommended movie IDs and predicted ratings
print([(iid, rating) for (iid, rating) in recommendations])

[('Touch of Evil (1958)', 4.159065804263628), ("Guess Who's Coming to Dinner (1967)", 4.123940190684259), ('Secrets & Lies (1996)', 4.123259228556291), ('Celebration, The (Festen) (1998)', 4.100122831410601), ('Battlestar Galactica (2003)', 4.086744365209958)]
```

SVD Results:

So after running the function, I used the three previous cells to get the top 5 recommendations for a specific user. The results seems ok, most of the movies are of similar rating but the genres are more spread out.

Cold Start Problem

and predicted ratings.

While the prediction and functions are producing some good results, there is one issue it does not address. It is something known as the 'cold-start' problem, where our model can not predict movies for a new user since it has not gathered any data from that person yet.

```
def get_recommendations_for_new_user(new_user, movie_user_matrix,
svd_algo, N=5):
    """Return recommendations for a new user using a collaborative
filtering recommendation method.

    Args:
        new_user (pandas Series): The new user's ratings for a subset
of movies.
        movie_user_matrix (pandas DataFrame): The movie-user matrix
containing the ratings of all users.
        svd_algo
(surprise.prediction_algorithms.matrix_factorization.SVD): The trained
SVD algorithm.
    N (int): The number of recommendations to return.

Returns:
    list: A list of tuples containing the recommended movie titles
```

```
0.00
    # Create a temporary dataset
    temp df = pd.concat([movie user matrix, new user], axis=0)
    temp df.fillna(0, inplace=True)
    temp matrix = temp_df.values
    # Create a trainset from the temporary matrix
    trainset temp = data.build full trainset()
    # Train the SVD algorithm on the temporary trainset
    svd algo.fit(trainset temp)
    # Get the predicted ratings for the new user
    new user predictions =
svd_algo.test(trainset_temp.build_anti_testset())
    # Sort the predictions by predicted rating in descending order
    new user predictions.sort(key=lambda x: x.est, reverse=True)
    # Return the top N movie titles and predicted ratings
    return [(prediction.iid, prediction.est) for prediction in
new user predictions[:N]]
# Creating a new user with a few movie and ratings to add in...
new user ratings = pd.Series({'Toy Story (1995)': 5, 'Jumanji (1995)':
4, 'Grumpier Old Men (1995)': 2})
recommendations = get_recommendations_for_new_user(new_user_ratings,
movie user matrix, svd_algo, N=5)
# Seeing the recommendations for our new user...
for recommendation in recommendations:
    movie title, prediction = recommendation
    print(f'Movie: {movie title}, Predicted Rating: {prediction:.1f}')
Movie: Secrets & Lies (1996), Predicted Rating: 5.0
Movie: Guess Who's Coming to Dinner (1967), Predicted Rating: 5.0
Movie: Paths of Glory (1957), Predicted Rating: 5.0
Movie: Celebration, The (Festen) (1998), Predicted Rating: 5.0
Movie: Ran (1985), Predicted Rating: 5.0
```

Conclusion:

We began by inspecting and cleaning the data and then proceeded to train our algorithms. We got some very good results, especially with our KNN based model. Our 'cold-start' model is a work in progress but very promising.

Final Evaluation For our Stakeholder:

Use the KNN model to launch

- Continue to test and re-run the models every few months
- Continue to use the Cold-Start engine to gain better insight into recommendation for the customers
- Consider weighting movies based on genre or year released, several of these movies being returned are classics, but quite old

Appendix/References:

- Year Extraction: https://stackoverflow.com/questions/62646601/how-to-extract-user-ratings-from-a-movie-dataset -Surpirse Library -Functions/algos etc https://surprise.readthedocs.io/en/stable/FAQ.html?highlight=new%20user#how-to-get-the-top-n-recommendations-for-each-user
- Cold Start function ideas: https://robban112.github.io/images/Kandidatexamensrapport.pdf