

movlens case study

December 22, 2021

```
[32]: import pandas as pd
pd.set_option('max_columns',None)
pd.set_option('max_rows',None)

import tkinter
from tkinter import*
import numpy as np

import warnings
warnings.filterwarnings('ignore')

import matplotlib.pyplot as plt
```

```
[33]: #import three dataset
movies = pd.read_csv('movies.dat',delimiter = '::',names=␣
↳['movieid','title','genres'])
```

```
[34]: rating = pd.read_csv('ratings.dat',delimiter = '::',names=␣
↳['userid','movieid','rating','timestamp'])
```

```
[35]: users = pd.read_csv('users.dat',delimiter = '::',names=␣
↳['userid','gender','age','occupation','zip_code'])
```

```
[36]: movies.head(1)
```

```
[36]:      movieid      title      genres
0          1  Toy Story (1995)  Animation|Children's|Comedy
```

```
[37]: rating.head(1)
```

```
[37]:      userid  movieid  rating  timestamp
0          1      1193        5   978300760
```

```
[38]: users.head(1)
```

```
[38]:      userid  gender  age  occupation  zip_code
0          1        F    1           10     48067
```

```
[39]: df = pd.merge(users.drop('zip_code',axis = 1),rating.drop('timestamp',axis = 1))
```

1 Create a new dataset [Master_Data]

```
[40]: # Merge two tables at a time.Merge the tables using two primary keys MovieID &
      ↪UserId
master_data = pd.merge(df, movies.drop('genres',axis = 1), on = 'movieid')
```

```
[41]: master_data.head()
```

```
[41]:
```

	userid	gender	age	occupation	movieid	rating	\
0	1	F	1	10	1193	5	
1	2	M	56	16	1193	5	
2	12	M	25	12	1193	4	
3	15	M	25	7	1193	4	
4	17	M	50	1	1193	5	

	title
0	One Flew Over the Cuckoo's Nest (1975)
1	One Flew Over the Cuckoo's Nest (1975)
2	One Flew Over the Cuckoo's Nest (1975)
3	One Flew Over the Cuckoo's Nest (1975)
4	One Flew Over the Cuckoo's Nest (1975)

```
[42]: master_data.age.value_counts(normalize = True)*100
```

```
[42]:
```

25	39.547335
35	19.896142
18	18.349765
45	8.361552
50	7.247485
56	3.877190
1	2.720531

Name: age, dtype: float64

```
[43]: fig = plt.figure(figsize= (15,6))
      plt.style.use('seaborn-pastel')
```

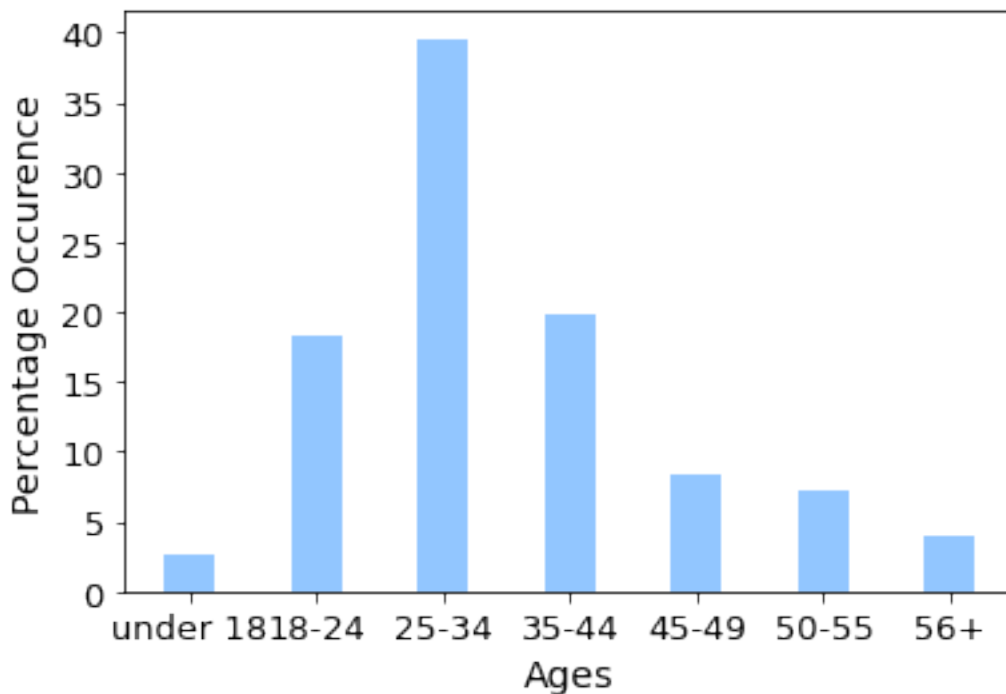
<Figure size 1080x432 with 0 Axes>

2 Explore the datasets using visual representations.

```
[45]: # user age distrubution
labels = {1: 'under 18', 18: '18-24', 25: '25-34', 35: '35-44', 45: '45-49', 50:
        ↪ '50-55', 56: '56+'}
master_data['age_names'] = master_data['age'].map(labels)

[46]: info = (master_data['age_names'].value_counts(normalize = True)*100).to_frame()
info = info.loc[list(labels.values())]

plt.xticks(size= 13)
plt.yticks(size= 13)
plt.xlabel('Ages', size = 14)
plt.ylabel('Percentage Occurence' , size = 14)
plt.bar(info.index,info['age_names'],width=0.4);
```



```
[50]: # top 25 movies by viewership rating
movie_rating = master_data[['title','rating']].groupby('title').mean().
        ↪ sort_values('rating',ascending=False)
movie_rating.head(25)
```

```
[50]:                                     rating
title
```

Ulysses (Ulisse) (1954)	5.000000
Lured (1947)	5.000000
Follow the Bitch (1998)	5.000000
Bittersweet Motel (2000)	5.000000
Song of Freedom (1936)	5.000000
One Little Indian (1973)	5.000000
Smashing Time (1967)	5.000000
Schlafes Bruder (Brother of Sleep) (1995)	5.000000
Gate of Heavenly Peace, The (1995)	5.000000
Baby, The (1973)	5.000000
I Am Cuba (Soy Cuba/Ya Kuba) (1964)	4.800000
Lamerica (1994)	4.750000
Apple, The (Sib) (1998)	4.666667
Sanjuro (1962)	4.608696
Seven Samurai (The Magnificent Seven) (Shichini...	4.560510
Shawshank Redemption, The (1994)	4.554558
Godfather, The (1972)	4.524966
Close Shave, A (1995)	4.520548
Usual Suspects, The (1995)	4.517106
Schindler's List (1993)	4.510417
Wrong Trousers, The (1993)	4.507937
Dry Cleaning (Nettoyage sec) (1997)	4.500000
Inheritors, The (Die Siebtelbauern) (1998)	4.500000
Mamma Roma (1962)	4.500000
Bells, The (1926)	4.500000

```
[53]: # user rating of the movie "Toy Story (1995)"
movie_rating.loc[['Toy Story (1995)']]
```

```
[53]:          rating
title
Toy Story (1995)  4.146846
```

```
[54]: #Find the ratings for all the movies reviewed by for a particular user of user_
↳ id = 2696
master_data[master_data['userid']==2696]
```

```
[54]:   userid  gender  age  occupation  movieid  rating  \
24345    2696     M   25           7    1270      2
29848    2696     M   25           7    1097      3
244232   2696     M   25           7    1617      4
250014   2696     M   25           7     800      5
273633   2696     M   25           7    3386      1
277808   2696     M   25           7    3176      4
371178   2696     M   25           7    1711      4
377250   2696     M   25           7    1589      3
598042   2696     M   25           7    1783      4
```

603189	2696	M	25	7	1892	4
609204	2696	M	25	7	1625	4
611956	2696	M	25	7	1644	2
612552	2696	M	25	7	1645	4
613486	2696	M	25	7	2389	4
616546	2696	M	25	7	1805	4
618708	2696	M	25	7	1092	4
621101	2696	M	25	7	2713	1
689379	2696	M	25	7	1258	4
697451	2696	M	25	7	2338	2
777089	2696	M	25	7	350	3

		title	age_names
24345		Back to the Future (1985)	25-34
29848		E.T. the Extra-Terrestrial (1982)	25-34
244232		L.A. Confidential (1997)	25-34
250014		Lone Star (1996)	25-34
273633		JFK (1991)	25-34
277808		Talented Mr. Ripley, The (1999)	25-34
371178	Midnight in the Garden of Good and Evil (1997)		25-34
377250		Cop Land (1997)	25-34
598042		Palmetto (1998)	25-34
603189		Perfect Murder, A (1998)	25-34
609204		Game, The (1997)	25-34
611956	I Know What You Did Last Summer (1997)		25-34
612552		Devil's Advocate, The (1997)	25-34
613486		Psycho (1998)	25-34
616546		Wild Things (1998)	25-34
618708		Basic Instinct (1992)	25-34
621101		Lake Placid (1999)	25-34
689379		Shining, The (1980)	25-34
697451	I Still Know What You Did Last Summer (1998)		25-34
777089		Client, The (1994)	25-34

```
[55]: movies.head()
```

```
[55]:
```

	movieid	title	genres
0	1	Toy Story (1995)	Animation Children's Comedy
1	2	Jumanji (1995)	Adventure Children's Fantasy
2	3	Grumpier Old Men (1995)	Comedy Romance
3	4	Waiting to Exhale (1995)	Comedy Drama
4	5	Father of the Bride Part II (1995)	Comedy

3 Feature Engineering

```
[57]: #Find out all the unique genres  
#split the data in column genre making a list and then process the data to find  
→out only the unique categories of genres
```

```
movies['col_genres']=movies['genres'].apply(lambda x : str(x).split('|'))  
movies.head()
```

```
[57]:
```

	movieid	title	genres \
0	1	Toy Story (1995)	Animation Children's Comedy
1	2	Jumanji (1995)	Adventure Children's Fantasy
2	3	Grumpier Old Men (1995)	Comedy Romance
3	4	Waiting to Exhale (1995)	Comedy Drama
4	5	Father of the Bride Part II (1995)	Comedy

	col_genres
0	[Animation, Children's, Comedy]
1	[Adventure, Children's, Fantasy]
2	[Comedy, Romance]
3	[Comedy, Drama]
4	[Comedy]

```
[60]: genres = []  
for i in movies['col_genres']:  
    genres.extend(i)  
  
genres = set(genres)  
genres
```

```
[60]: {'Action',  
      'Adventure',  
      'Animation',  
      "Children's",  
      'Comedy',  
      'Crime',  
      'Documentary',  
      'Drama',  
      'Fantasy',  
      'Film-Noir',  
      'Horror',  
      'Musical',  
      'Mystery',  
      'Romance',  
      'Sci-Fi',  
      'Thriller',
```

```
'War',
'Western']}
```

```
[61]: for i in genres:
        master_data[i]= 0

master_data.head(2)
```

```
[61]:   userid  gender  age  occupation  movieid  rating \
0         1      F    1           10      1193        5
1         2      M   56           16      1193        5

                                     title  age_names  Adventure  Comedy \
0  One Flew Over the Cuckoo's Nest (1975)  under 18          0          0
1  One Flew Over the Cuckoo's Nest (1975)    56+          0          0

      Musical  Mystery  Thriller  Documentary  Film-Noir  Children's  Animation \
0           0         0         0           0           0           0           0
1           0         0         0           0           0           0           0

      Fantasy  Sci-Fi  Western  Romance  Action  War  Crime  Drama  Horror
0           0         0         0         0         0         0         0         0
1           0         0         0         0         0         0         0         0
```

```
[62]: #Create a separate column for each genre category with a one-hot encoding ( 1
      ↪and 0) whether or not the movie belongs to that genre.

movie_genres = dict(zip(movies['title'],movies['col_genres']))
movie_genres
```

```
[62]: {'Toy Story (1995)': ['Animation', 'Children's', 'Comedy'],
      'Jumanji (1995)': ['Adventure', 'Children's', 'Fantasy'],
      'Grumpier Old Men (1995)': ['Comedy', 'Romance'],
      'Waiting to Exhale (1995)': ['Comedy', 'Drama'],
      'Father of the Bride Part II (1995)': ['Comedy'],
      'Heat (1995)': ['Action', 'Crime', 'Thriller'],
      'Sabrina (1995)': ['Comedy', 'Romance'],
      'Tom and Huck (1995)': ['Adventure', 'Children's'],
      'Sudden Death (1995)': ['Action'],
      'GoldenEye (1995)': ['Action', 'Adventure', 'Thriller'],
      'American President, The (1995)': ['Comedy', 'Drama', 'Romance'],
      'Dracula: Dead and Loving It (1995)': ['Comedy', 'Horror'],
      'Balto (1995)': ['Animation', 'Children's'],
      'Nixon (1995)': ['Drama'],
      'Cutthroat Island (1995)': ['Action', 'Adventure', 'Romance'],
      'Casino (1995)': ['Drama', 'Thriller'],
      'Sense and Sensibility (1995)': ['Drama', 'Romance'],
```

'Four Rooms (1995)': ['Thriller'],
 'Ace Ventura: When Nature Calls (1995)': ['Comedy'],
 'Money Train (1995)': ['Action'],
 'Get Shorty (1995)': ['Action', 'Comedy', 'Drama'],
 'Copycat (1995)': ['Crime', 'Drama', 'Thriller'],
 'Assassins (1995)': ['Thriller'],
 'Powder (1995)': ['Drama', 'Sci-Fi'],
 'Leaving Las Vegas (1995)': ['Drama', 'Romance'],
 'Othello (1995)': ['Drama'],
 'Now and Then (1995)': ['Drama'],
 'Persuasion (1995)': ['Romance'],
 'City of Lost Children, The (1995)': ['Adventure', 'Sci-Fi'],
 'Shanghai Triad (Yao a yao yao dao waipo qiao) (1995)': ['Drama'],
 'Dangerous Minds (1995)': ['Drama'],
 'Twelve Monkeys (1995)': ['Drama', 'Sci-Fi'],
 'Wings of Courage (1995)': ['Adventure', 'Romance'],
 'Babe (1995)': ['Children's', 'Comedy', 'Drama'],
 'Carrington (1995)': ['Drama', 'Romance'],
 'Dead Man Walking (1995)': ['Drama'],
 'Across the Sea of Time (1995)': ['Documentary'],
 'It Takes Two (1995)': ['Comedy'],
 'Clueless (1995)': ['Comedy', 'Romance'],
 'Cry, the Beloved Country (1995)': ['Drama'],
 'Richard III (1995)': ['Drama', 'War'],
 'Dead Presidents (1995)': ['Action', 'Crime', 'Drama'],
 'Restoration (1995)': ['Drama'],
 'Mortal Kombat (1995)': ['Action', 'Adventure'],
 'To Die For (1995)': ['Comedy', 'Drama'],
 'How to Make an American Quilt (1995)': ['Drama', 'Romance'],
 'Seven (Se7en) (1995)': ['Crime', 'Thriller'],
 'Pocahontas (1995)': ['Animation', 'Children's', 'Musical', 'Romance'],
 'When Night Is Falling (1995)': ['Drama', 'Romance'],
 'Usual Suspects, The (1995)': ['Crime', 'Thriller'],
 'Guardian Angel (1994)': ['Action', 'Drama', 'Thriller'],
 'Mighty Aphrodite (1995)': ['Comedy'],
 'Lamerica (1994)': ['Drama'],
 'Big Green, The (1995)': ['Children's', 'Comedy'],
 'Georgia (1995)': ['Drama'],
 'Kids of the Round Table (1995)': ['Adventure', 'Children's', 'Fantasy'],
 'Home for the Holidays (1995)': ['Drama'],
 'Postino, Il (The Postman) (1994)': ['Drama', 'Romance'],
 'Confessional, The (Le Confessionnal) (1995)': ['Drama', 'Mystery'],
 'Indian in the Cupboard, The (1995)': ['Adventure', 'Children's', 'Fantasy'],
 'Eye for an Eye (1996)': ['Drama', 'Thriller'],
 'Mr. Holland's Opus (1995)': ['Drama'],
 'Don't Be a Menace to South Central While Drinking Your Juice in the Hood (1996)': ['Comedy'],

'Two if by Sea (1996)': ['Comedy', 'Romance'],
 'Bio-Dome (1996)': ['Comedy'],
 'Lawnmower Man 2: Beyond Cyberspace (1996)': ['Sci-Fi', 'Thriller'],
 'Two Bits (1995)': ['Drama'],
 'French Twist (Gazon maudit) (1995)': ['Comedy', 'Romance'],
 'Friday (1995)': ['Comedy'],
 'From Dusk Till Dawn (1996)': ['Action',
 'Comedy',
 'Crime',
 'Horror',
 'Thriller'],
 'Fair Game (1995)': ['Action'],
 'Kicking and Screaming (1995)': ['Comedy', 'Drama'],
 'Misrables, Les (1995)': ['Drama', 'Musical'],
 'Bed of Roses (1996)': ['Drama', 'Romance'],
 'Big Bully (1996)': ['Comedy', 'Drama'],
 'Screamers (1995)': ['Sci-Fi', 'Thriller'],
 'Nico Icon (1995)': ['Documentary'],
 'Crossing Guard, The (1995)': ['Drama'],
 'Juror, The (1996)': ['Drama', 'Thriller'],
 'White Balloon, The (Badkonake Sefid) (1995)': ['Drama'],
 'Things to Do in Denver when You're Dead (1995)': ['Crime',
 'Drama',
 'Romance'],
 'Antonia's Line (Antonia) (1995)': ['Drama'],
 'Once Upon a Time... When We Were Colored (1995)': ['Drama'],
 'Last Summer in the Hamptons (1995)': ['Comedy', 'Drama'],
 'Angels and Insects (1995)': ['Drama', 'Romance'],
 'White Squall (1996)': ['Adventure', 'Drama'],
 'Dunston Checks In (1996)': ['Children's', 'Comedy'],
 'Black Sheep (1996)': ['Comedy'],
 'Nick of Time (1995)': ['Action', 'Thriller'],
 'Journey of August King, The (1995)': ['Drama'],
 'Mary Reilly (1996)': ['Drama', 'Thriller'],
 'Vampire in Brooklyn (1995)': ['Comedy', 'Romance'],
 'Beautiful Girls (1996)': ['Drama'],
 'Broken Arrow (1996)': ['Action', 'Thriller'],
 'In the Bleak Midwinter (1995)': ['Comedy'],
 'Hate (Haine, La) (1995)': ['Drama'],
 'Shopping (1994)': ['Action', 'Thriller'],
 'Heidi Fleiss: Hollywood Madam (1995)': ['Documentary'],
 'City Hall (1996)': ['Drama', 'Thriller'],
 'Bottle Rocket (1996)': ['Comedy'],
 'Mr. Wrong (1996)': ['Comedy'],
 'Unforgettable (1996)': ['Thriller'],
 'Happy Gilmore (1996)': ['Comedy'],
 'Bridges of Madison County, The (1995)': ['Drama', 'Romance'],

'Nobody Loves Me (Keiner liebt mich) (1994)': ['Comedy', 'Drama'],
 'Muppet Treasure Island (1996)': ['Adventure',
 "Children's",
 'Comedy',
 'Musical'],
 'Catwalk (1995)': ['Documentary'],
 'Headless Body in Topless Bar (1995)': ['Comedy'],
 'Braveheart (1995)': ['Action', 'Drama', 'War'],
 'Taxi Driver (1976)': ['Drama', 'Thriller'],
 'Rumble in the Bronx (1995)': ['Action', 'Adventure', 'Crime'],
 'Before and After (1996)': ['Drama', 'Mystery'],
 'Margaret's Museum (1995)': ['Drama'],
 'Happiness Is in the Field (1995)': ['Comedy'],
 'Anne Frank Remembered (1995)': ['Documentary'],
 'Young Poisoner's Handbook, The (1995)': ['Crime'],
 'If Lucy Fell (1996)': ['Comedy', 'Romance'],
 'Steal Big, Steal Little (1995)': ['Comedy'],
 'Race the Sun (1996)': ['Drama'],
 'Boys of St. Vincent, The (1993)': ['Drama'],
 'Boomerang (1992)': ['Comedy', 'Romance'],
 'Chungking Express (1994)': ['Drama', 'Mystery', 'Romance'],
 'Star Maker, The (Uomo delle stelle, L') (1995)': ['Drama'],
 'Flirting With Disaster (1996)': ['Comedy'],
 'NeverEnding Story III, The (1994)': ['Adventure', "Children's", 'Fantasy'],
 'Silence of the Palace, The (Saimt el Qusur) (1994)': ['Drama'],
 'Jupiter's Wife (1994)': ['Documentary'],
 'Pie in the Sky (1995)': ['Comedy', 'Romance'],
 'Angela (1995)': ['Drama'],
 'Frankie Starlight (1995)': ['Drama', 'Romance'],
 'Jade (1995)': ['Thriller'],
 'Nueba Yol (1995)': ['Comedy', 'Drama'],
 'Sonic Outlaws (1995)': ['Documentary'],
 'Down Periscope (1996)': ['Comedy'],
 'From the Journals of Jean Seberg (1995)': ['Documentary'],
 'Man of the Year (1995)': ['Documentary'],
 'Neon Bible, The (1995)': ['Drama'],
 'Target (1995)': ['Action', 'Drama'],
 'Up Close and Personal (1996)': ['Drama', 'Romance'],
 'Birdcage, The (1996)': ['Comedy'],
 'Shadows (Cienie) (1988)': ['Drama'],
 'Gospa (1995)': ['Drama'],
 'Brothers McMullen, The (1995)': ['Comedy'],
 'Bad Boys (1995)': ['Action'],
 'Amazing Panda Adventure, The (1995)': ['Adventure', "Children's"],
 'Basketball Diaries, The (1995)': ['Drama'],
 'Awfully Big Adventure, An (1995)': ['Drama'],
 'Amateur (1994)': ['Crime', 'Drama', 'Thriller'],

'Apollo 13 (1995)': ['Drama'],
 'Rob Roy (1995)': ['Drama', 'Romance', 'War'],
 'Addiction, The (1995)': ['Horror'],
 'Batman Forever (1995)': ['Action', 'Adventure', 'Comedy', 'Crime'],
 'Belle de jour (1967)': ['Drama'],
 'Beyond Rangoon (1995)': ['Drama', 'War'],
 'Blue in the Face (1995)': ['Comedy'],
 'Canadian Bacon (1994)': ['Comedy', 'War'],
 'Casper (1995)': ['Adventure', "Children's"],
 'Clockers (1995)': ['Drama'],
 'Congo (1995)': ['Action', 'Adventure', 'Mystery', 'Sci-Fi'],
 'Crimson Tide (1995)': ['Drama', 'Thriller', 'War'],
 'Crumb (1994)': ['Documentary'],
 'Desperado (1995)': ['Action', 'Romance', 'Thriller'],
 'Devil in a Blue Dress (1995)': ['Crime', 'Film-Noir', 'Mystery', 'Thriller'],
 'Die Hard: With a Vengeance (1995)': ['Action', 'Thriller'],
 'Doom Generation, The (1995)': ['Comedy', 'Drama'],
 'Feast of July (1995)': ['Drama'],
 'First Knight (1995)': ['Action', 'Adventure', 'Drama', 'Romance'],
 'Free Willy 2: The Adventure Home (1995)': ['Adventure',
 "Children's",
 'Drama'],
 'Hackers (1995)': ['Action', 'Crime', 'Thriller'],
 'Jeffrey (1995)': ['Comedy'],
 'Johnny Mnemonic (1995)': ['Action', 'Sci-Fi', 'Thriller'],
 'Judge Dredd (1995)': ['Action', 'Adventure', 'Sci-Fi'],
 'Jury Duty (1995)': ['Comedy'],
 'Kids (1995)': ['Drama'],
 'Living in Oblivion (1995)': ['Comedy'],
 'Lord of Illusions (1995)': ['Horror'],
 'Love & Human Remains (1993)': ['Comedy'],
 'Mad Love (1995)': ['Drama', 'Romance'],
 'Mallrats (1995)': ['Comedy'],
 'Mighty Morphin Power Rangers: The Movie (1995)': ['Action', "Children's"],
 'Moonlight and Valentino (1995)': ['Drama', 'Romance'],
 'Mute Witness (1994)': ['Thriller'],
 'Nadja (1994)': ['Drama'],
 'Net, The (1995)': ['Sci-Fi', 'Thriller'],
 'Nine Months (1995)': ['Comedy'],
 'Party Girl (1995)': ['Comedy'],
 'Prophecy, The (1995)': ['Horror'],
 'Reckless (1995)': ['Comedy'],
 'Safe (1995)': ['Thriller'],
 'Scarlet Letter, The (1995)': ['Drama'],
 'Show, The (1995)': ['Documentary'],
 'Showgirls (1995)': ['Drama'],
 'Smoke (1995)': ['Drama'],

'Something to Talk About (1995)': ['Comedy', 'Drama', 'Romance'],
 'Species (1995)': ['Horror', 'Sci-Fi'],
 'Stars Fell on Henrietta, The (1995)': ['Drama'],
 'Strange Days (1995)': ['Action', 'Crime', 'Sci-Fi'],
 'Umbrellas of Cherbourg, The (Parapluies de Cherbourg, Les) (1964)': ['Drama',
 'Musical'],
 'Tie That Binds, The (1995)': ['Thriller'],
 'Three Wishes (1995)': ['Drama'],
 'Total Eclipse (1995)': ['Drama', 'Romance'],
 'To Wong Foo, Thanks for Everything! Julie Newmar (1995)': ['Comedy'],
 'Under Siege 2: Dark Territory (1995)': ['Action'],
 'Unstrung Heroes (1995)': ['Comedy', 'Drama'],
 'Unzipped (1995)': ['Documentary'],
 'Walk in the Clouds, A (1995)': ['Drama', 'Romance'],
 'Waterworld (1995)': ['Action', 'Adventure'],
 'White Man's Burden (1995)': ['Drama'],
 'Wild Bill (1995)': ['Western'],
 'Browning Version, The (1994)': ['Drama'],
 'Bushwhacked (1995)': ['Comedy'],
 'Burnt By the Sun (Utomlyonnye solntsem) (1994)': ['Drama'],
 'Before the Rain (Pred dozhdot) (1994)': ['Drama'],
 'Before Sunrise (1995)': ['Drama', 'Romance'],
 'Billy Madison (1995)': ['Comedy'],
 'Babysitter, The (1995)': ['Drama', 'Thriller'],
 'Boys on the Side (1995)': ['Comedy', 'Drama'],
 'Cure, The (1995)': ['Drama'],
 'Castle Freak (1995)': ['Horror'],
 'Circle of Friends (1995)': ['Drama', 'Romance'],
 'Clerks (1994)': ['Comedy'],
 'Don Juan DeMarco (1995)': ['Comedy', 'Drama', 'Romance'],
 'Disclosure (1994)': ['Drama', 'Thriller'],
 'Dream Man (1995)': ['Thriller'],
 'Drop Zone (1994)': ['Action'],
 'Destiny Turns on the Radio (1995)': ['Comedy'],
 'Death and the Maiden (1994)': ['Drama', 'Thriller'],
 'Dolores Claiborne (1994)': ['Drama', 'Thriller'],
 'Dumb & Dumber (1994)': ['Comedy'],
 'Eat Drink Man Woman (1994)': ['Comedy', 'Drama'],
 'Exotica (1994)': ['Drama'],
 'Exit to Eden (1994)': ['Comedy'],
 'Ed Wood (1994)': ['Comedy', 'Drama'],
 'French Kiss (1995)': ['Comedy', 'Romance'],
 'Forget Paris (1995)': ['Comedy', 'Romance'],
 'Far From Home: The Adventures of Yellow Dog (1995)': ['Adventure',
 'Children's'],
 'Goofy Movie, A (1995)': ['Animation', 'Children's', 'Comedy', 'Romance'],
 'Hideaway (1995)': ['Thriller'],

'Fluke (1995)': ['Children's', 'Drama'],
 'Farinelli: il castrato (1994)': ['Drama', 'Musical'],
 'Gordy (1995)': ['Comedy'],
 'Gumby: The Movie (1995)': ['Animation', 'Children's'],
 'Glass Shield, The (1994)': ['Crime', 'Drama'],
 'Hoop Dreams (1994)': ['Documentary'],
 'Heavenly Creatures (1994)': ['Drama', 'Fantasy', 'Romance', 'Thriller'],
 'Houseguest (1994)': ['Comedy'],
 'Immortal Beloved (1994)': ['Drama', 'Romance'],
 'Heavyweights (1994)': ['Children's', 'Comedy'],
 'Hunted, The (1995)': ['Action'],
 'I.Q. (1994)': ['Comedy', 'Romance'],
 'Interview with the Vampire (1994)': ['Drama', 'Horror'],
 'Jefferson in Paris (1995)': ['Drama'],
 'Jerky Boys, The (1994)': ['Comedy'],
 'Junior (1994)': ['Comedy', 'Sci-Fi'],
 'Just Cause (1995)': ['Mystery', 'Thriller'],
 'Kid in King Arthur's Court, A (1995)': ['Adventure',
 'Children's',
 'Comedy',
 'Fantasy',
 'Romance'],
 'Kiss of Death (1995)': ['Crime', 'Drama', 'Thriller'],
 'Star Wars: Episode IV - A New Hope (1977)': ['Action',
 'Adventure',
 'Fantasy',
 'Sci-Fi'],
 'Little Women (1994)': ['Drama'],
 'Little Princess, A (1995)': ['Children's', 'Drama'],
 'Ladybird Ladybird (1994)': ['Drama'],
 'Enfer, L' (1994)': ['Drama'],
 'Like Water for Chocolate (Como agua para chocolate) (1992)': ['Drama',
 'Romance'],
 'Legends of the Fall (1994)': ['Drama', 'Romance', 'War', 'Western'],
 'Major Payne (1994)': ['Comedy'],
 'Little Odessa (1994)': ['Drama'],
 'My Crazy Life (Mi vida loca) (1993)': ['Drama'],
 'Love Affair (1994)': ['Drama', 'Romance'],
 'Losing Isaiah (1995)': ['Drama'],
 'Madness of King George, The (1994)': ['Drama'],
 'Mary Shelley's Frankenstein (1994)': ['Drama', 'Horror'],
 'Man of the House (1995)': ['Comedy'],
 'Mixed Nuts (1994)': ['Comedy'],
 'Milk Money (1994)': ['Comedy', 'Romance'],
 'Miracle on 34th Street (1994)': ['Drama'],
 'Miami Rhapsody (1995)': ['Comedy'],
 'My Family (1995)': ['Drama'],

'Murder in the First (1995)': ['Drama', 'Thriller'],
 'Nobody's Fool (1994)': ['Drama'],
 'Nell (1994)': ['Drama'],
 'New Jersey Drive (1995)': ['Crime', 'Drama'],
 'New York Cop (1996)': ['Action', 'Crime'],
 'Beyond Bedlam (1993)': ['Drama', 'Horror'],
 'Nemesis 2: Nebula (1995)': ['Action', 'Sci-Fi', 'Thriller'],
 'Nina Takes a Lover (1994)': ['Comedy', 'Romance'],
 'Natural Born Killers (1994)': ['Action', 'Thriller'],
 'Only You (1994)': ['Comedy', 'Romance'],
 'Once Were Warriors (1994)': ['Crime', 'Drama'],
 'Poison Ivy II (1995)': ['Thriller'],
 'Outbreak (1995)': ['Action', 'Drama', 'Thriller'],
 'Professional, The (a.k.a. Leon: The Professional) (1994)': ['Crime',
 'Drama',
 'Romance',
 'Thriller'],
 'Perez Family, The (1995)': ['Comedy', 'Romance'],
 'Pyromaniac's Love Story, A (1995)': ['Comedy', 'Romance'],
 'Pulp Fiction (1994)': ['Crime', 'Drama'],
 'Panther (1995)': ['Drama'],
 'Pushing Hands (1992)': ['Comedy'],
 'Priest (1994)': ['Drama'],
 'Quiz Show (1994)': ['Drama'],
 'Picture Bride (1995)': ['Drama', 'Romance'],
 'Queen Margot (La Reine Margot) (1994)': ['Drama', 'Romance'],
 'Quick and the Dead, The (1995)': ['Action', 'Adventure', 'Western'],
 'Roommates (1995)': ['Comedy', 'Drama'],
 'Ready to Wear (Pret-A-Porter) (1994)': ['Comedy'],
 'Three Colors: Red (1994)': ['Drama'],
 'Three Colors: Blue (1993)': ['Drama'],
 'Three Colors: White (1994)': ['Drama'],
 'Red Firecracker, Green Firecracker (1994)': ['Drama'],
 'Rent-a-Kid (1995)': ['Comedy'],
 'Relative Fear (1994)': ['Horror', 'Thriller'],
 'Stuart Saves His Family (1995)': ['Comedy'],
 'Swan Princess, The (1994)': ['Animation', "Children's"],
 'Secret of Roan Inish, The (1994)': ['Drama'],
 'Specialist, The (1994)': ['Action'],
 'Stargate (1994)': ['Action', 'Adventure', 'Sci-Fi'],
 'Santa Clause, The (1994)': ["Children's", 'Comedy', 'Fantasy'],
 'Shawshank Redemption, The (1994)': ['Drama'],
 'Shallow Grave (1994)': ['Thriller'],
 'Suture (1993)': ['Film-Noir', 'Thriller'],
 'Strawberry and Chocolate (Fresa y chocolate) (1993)': ['Drama'],
 'Swimming with Sharks (1995)': ['Comedy', 'Drama'],
 'Sum of Us, The (1994)': ['Comedy'],

"National Lampoon's Senior Trip (1995)": ['Comedy'],
 'To Live (Huozhe) (1994)': ['Drama'],
 'Tank Girl (1995)': ['Action', 'Comedy', 'Musical', 'Sci-Fi'],
 'Tales From the Crypt Presents: Demon Knight (1995)': ['Horror'],
 'Star Trek: Generations (1994)': ['Action', 'Adventure', 'Sci-Fi'],
 'Tales from the Hood (1995)': ['Comedy', 'Horror'],
 'Tom & Viv (1994)': ['Drama'],
 'Village of the Damned (1995)': ['Horror', 'Sci-Fi'],
 'Tommy Boy (1995)': ['Comedy'],
 'Vanya on 42nd Street (1994)': ['Drama'],
 'Underneath, The (1995)': ['Mystery', 'Thriller'],
 'Walking Dead, The (1995)': ['Drama', 'War'],
 "What's Eating Gilbert Grape (1993)": ['Drama'],
 'Virtuosity (1995)': ['Sci-Fi', 'Thriller'],
 'While You Were Sleeping (1995)': ['Comedy', 'Romance'],
 'War, The (1994)': ['Adventure', 'Drama'],
 'Double Happiness (1994)': ['Drama'],
 "Muriel's Wedding (1994)": ['Comedy', 'Romance'],
 'Baby-Sitters Club, The (1995)': ["Children's"],
 'Ace Ventura: Pet Detective (1994)': ['Comedy'],
 'Adventures of Priscilla, Queen of the Desert, The (1994)': ['Comedy', 'Drama'],
 'Backbeat (1993)': ['Drama', 'Musical'],
 'Bitter Moon (1992)': ['Drama'],
 'Bullets Over Broadway (1994)': ['Comedy'],
 'Clear and Present Danger (1994)': ['Action', 'Adventure', 'Thriller'],
 'Client, The (1994)': ['Drama', 'Mystery', 'Thriller'],
 'Corrina, Corrina (1994)': ['Comedy', 'Drama', 'Romance'],
 'Crooklyn (1994)': ['Comedy'],
 'Crow, The (1994)': ['Action', 'Romance', 'Thriller'],
 'Cobb (1994)': ['Drama'],
 'Flintstones, The (1994)': ["Children's", 'Comedy'],
 'Forrest Gump (1994)': ['Comedy', 'Romance', 'War'],
 'Four Weddings and a Funeral (1994)': ['Comedy', 'Romance'],
 'Higher Learning (1995)': ['Drama'],
 'I Like It Like That (1994)': ['Comedy', 'Drama', 'Romance'],
 'I Love Trouble (1994)': ['Action', 'Comedy'],
 'It Could Happen to You (1994)': ['Drama', 'Romance'],
 'Jungle Book, The (1994)': ['Adventure', "Children's", 'Romance'],
 'Wonderful, Horrible Life of Leni Riefenstahl, The (Die Macht der Bilder) (1993)': ['Documentary'],
 'Lion King, The (1994)': ['Animation', "Children's", 'Musical'],
 'Little Buddha (1993)': ['Drama'],
 "Wes Craven's New Nightmare (1994)": ['Horror'],
 'Mask, The (1994)': ['Comedy', 'Crime', 'Fantasy'],
 'Maverick (1994)': ['Action', 'Comedy', 'Western'],
 'Mrs. Parker and the Vicious Circle (1994)': ['Drama'],

'Naked Gun 33 1/3: The Final Insult (1994)': ['Comedy'],
 'Paper, The (1994)': ['Comedy', 'Drama'],
 'Reality Bites (1994)': ['Comedy', 'Drama'],
 'Red Rock West (1992)': ['Thriller'],
 'Richie Rich (1994)': ["Children's", 'Comedy'],
 'Safe Passage (1994)': ['Drama'],
 'River Wild, The (1994)': ['Action', 'Thriller'],
 'Speed (1994)': ['Action', 'Romance', 'Thriller'],
 'Speechless (1994)': ['Comedy', 'Romance'],
 'Timecop (1994)': ['Action', 'Sci-Fi'],
 'True Lies (1994)': ['Action', 'Adventure', 'Comedy', 'Romance'],
 'When a Man Loves a Woman (1994)': ['Drama'],
 'Wolf (1994)': ['Drama', 'Horror'],
 'Wyatt Earp (1994)': ['Western'],
 'Bad Company (1995)': ['Action'],
 'Man of No Importance, A (1994)': ['Drama'],
 'S.F.W. (1994)': ['Drama'],
 'Low Down Dirty Shame, A (1994)': ['Action', 'Comedy'],
 'Boys Life (1995)': ['Drama'],
 'Colonel Chabert, Le (1994)': ['Drama', 'Romance', 'War'],
 'Faster Pussycat! Kill! Kill! (1965)': ['Action', 'Comedy', 'Drama'],
 'Jason's Lyric (1994)': ['Crime', 'Drama'],
 'Secret Adventures of Tom Thumb, The (1993)': ['Adventure', "Children's"],
 'Street Fighter (1994)': ['Action'],
 'Coldblooded (1995)': ['Action'],
 'Desert Winds (1995)': ['Drama'],
 'Fall Time (1995)': ['Drama'],
 'Fear, The (1995)': ['Horror'],
 'Frank and Ollie (1995)': ['Documentary'],
 'Girl in the Cadillac (1995)': ['Drama'],
 'Homage (1995)': ['Drama'],
 'Mirage (1995)': ['Action', 'Thriller'],
 'Open Season (1996)': ['Comedy'],
 'Two Crimes (1995)': ['Comedy', 'Crime', 'Drama'],
 'Brother Minister: The Assassination of Malcolm X (1994)': ['Documentary'],
 'Highlander III: The Sorcerer (1994)': ['Action', 'Sci-Fi'],
 'Federal Hill (1994)': ['Drama'],
 'In the Mouth of Madness (1995)': ['Horror', 'Thriller'],
 '8 Seconds (1994)': ['Drama'],
 'Above the Rim (1994)': ['Drama'],
 'Addams Family Values (1993)': ['Comedy'],
 'You So Crazy (1994)': ['Comedy'],
 'Age of Innocence, The (1993)': ['Drama'],
 'Airheads (1994)': ['Comedy'],
 'Air Up There, The (1994)': ['Comedy'],
 'Another Stakeout (1993)': ['Comedy', 'Thriller'],
 'Bad Girls (1994)': ['Western'],

'Barcelona (1994)': ['Comedy', 'Romance'],
 'Being Human (1993)': ['Drama'],
 'Beverly Hillbillies, The (1993)': ['Comedy'],
 'Beverly Hills Cop III (1994)': ['Action', 'Comedy'],
 'Black Beauty (1994)': ['Adventure', "Children's"],
 'Blink (1994)': ['Thriller'],
 'Blown Away (1994)': ['Action', 'Thriller'],
 'Blue Chips (1994)': ['Drama'],
 'Blue Sky (1994)': ['Drama', 'Romance'],
 'Body Snatchers (1993)': ['Horror', 'Sci-Fi', 'Thriller'],
 'Boxing Helena (1993)': ['Mystery', 'Romance', 'Thriller'],
 'Bronx Tale, A (1993)': ['Drama'],
 'Cabin Boy (1994)': ['Comedy'],
 'Calendar Girl (1993)': ['Drama'],
 'Carlito's Way (1993)': ['Crime', 'Drama'],
 'City Slickers II: The Legend of Curly's Gold (1994)': ['Comedy', 'Western'],
 'Clean Slate (1994)': ['Comedy'],
 'Cliffhanger (1993)': ['Action', 'Adventure', 'Crime'],
 'Coneheads (1993)': ['Comedy', 'Sci-Fi'],
 'Color of Night (1994)': ['Drama', 'Thriller'],
 'Cops and Robbersons (1994)': ['Comedy'],
 'Cowboy Way, The (1994)': ['Action', 'Comedy'],
 'Dangerous Game (1993)': ['Drama'],
 'Dave (1993)': ['Comedy', 'Romance'],
 'Dazed and Confused (1993)': ['Comedy'],
 'Demolition Man (1993)': ['Action', 'Sci-Fi'],
 'Endless Summer 2, The (1994)': ['Documentary'],
 'Even Cowgirls Get the Blues (1993)': ['Comedy', 'Romance'],
 'Fatal Instinct (1993)': ['Comedy'],
 'Farewell My Concubine (1993)': ['Drama', 'Romance'],
 'Favor, The (1994)': ['Comedy', 'Romance'],
 'Fearless (1993)': ['Drama'],
 'Fear of a Black Hat (1993)': ['Comedy'],
 'With Honors (1994)': ['Comedy', 'Drama'],
 'Flesh and Bone (1993)': ['Drama', 'Mystery', 'Romance'],
 'Widows' Peak (1994)': ['Drama'],
 'For Love or Money (1993)': ['Comedy'],
 'Firm, The (1993)': ['Drama', 'Thriller'],
 'Free Willy (1993)': ['Adventure', "Children's", 'Drama'],
 'Fresh (1994)': ['Drama'],
 'Fugitive, The (1993)': ['Action', 'Thriller'],
 'Geronimo: An American Legend (1993)': ['Drama', 'Western'],
 'Getaway, The (1994)': ['Action'],
 'Getting Even with Dad (1994)': ['Comedy'],
 'Go Fish (1994)': ['Drama', 'Romance'],
 'Good Man in Africa, A (1994)': ['Action', 'Adventure'],
 'Guilty as Sin (1993)': ['Crime', 'Drama', 'Thriller'],

'Hard Target (1993)': ['Action', 'Adventure', 'Crime', 'Thriller'],
 'Heaven & Earth (1993)': ['Action', 'Drama', 'War'],
 'Hot Shots! Part Deux (1993)': ['Action', 'Comedy', 'War'],
 'Live Nude Girls (1995)': ['Comedy'],
 'Englishman Who Went Up a Hill, But Came Down a Mountain, The (1995)':
 ['Comedy',
 'Romance'],
 'House of the Spirits, The (1993)': ['Drama', 'Romance'],
 'House Party 3 (1994)': ['Comedy'],
 'Hudsucker Proxy, The (1994)': ['Comedy', 'Romance'],
 'I'll Do Anything (1994)': ['Comedy', 'Drama'],
 'In the Army Now (1994)': ['Comedy', 'War'],
 'In the Line of Fire (1993)': ['Action', 'Thriller'],
 'In the Name of the Father (1993)': ['Drama'],
 'Inkwell, The (1994)': ['Comedy', 'Drama'],
 'What's Love Got to Do with It? (1993)': ['Drama'],
 'Jimmy Hollywood (1994)': ['Comedy'],
 'Judgment Night (1993)': ['Action'],
 'Jurassic Park (1993)': ['Action', 'Adventure', 'Sci-Fi'],
 'Kalifornia (1993)': ['Drama', 'Thriller'],
 'Killing Zoe (1994)': ['Thriller'],
 'King of the Hill (1993)': ['Drama'],
 'Lassie (1994)': ['Adventure', 'Children's'],
 'Last Action Hero (1993)': ['Action', 'Comedy'],
 'Life with Mikey (1993)': ['Comedy'],
 'Lightning Jack (1994)': ['Comedy', 'Western'],
 'M. Butterfly (1993)': ['Drama'],
 'Made in America (1993)': ['Comedy'],
 'Malice (1993)': ['Thriller'],
 'Man Without a Face, The (1993)': ['Drama'],
 'Manhattan Murder Mystery (1993)': ['Comedy', 'Mystery'],
 'Menace II Society (1993)': ['Action', 'Crime', 'Drama'],
 'Executive Decision (1996)': ['Action', 'Thriller'],
 'In the Realm of the Senses (Ai no corrida) (1976)': ['Drama'],
 'What Happened Was... (1994)': ['Comedy', 'Drama', 'Romance'],
 'Much Ado About Nothing (1993)': ['Comedy', 'Romance'],
 'Mr. Jones (1993)': ['Drama', 'Romance'],
 'Mr. Wonderful (1993)': ['Comedy', 'Romance'],
 'Mrs. Doubtfire (1993)': ['Comedy'],
 'Naked (1993)': ['Drama'],
 'Next Karate Kid, The (1994)': ['Action', 'Children's'],
 'New Age, The (1994)': ['Drama'],
 'No Escape (1994)': ['Action', 'Sci-Fi'],
 'North (1994)': ['Comedy'],
 'Orlando (1993)': ['Drama'],
 'Perfect World, A (1993)': ['Action', 'Drama'],
 'Philadelphia (1993)': ['Drama'],

'Piano, The (1993)': ['Drama', 'Romance'],
 'Poetic Justice (1993)': ['Drama'],
 'Program, The (1993)': ['Action', 'Drama'],
 "Robert A. Heinlein's The Puppet Masters (1994)": ['Horror', 'Sci-Fi'],
 'Radioland Murders (1994)': ['Comedy', 'Mystery', 'Romance'],
 'Ref, The (1994)': ['Comedy'],
 'Remains of the Day, The (1993)': ['Drama'],
 'Renaissance Man (1994)': ['Comedy', 'Drama', 'War'],
 'Rising Sun (1993)': ['Action', 'Drama', 'Mystery'],
 'Road to Wellville, The (1994)': ['Comedy'],
 'Robocop 3 (1993)': ['Sci-Fi', 'Thriller'],
 'Robin Hood: Men in Tights (1993)': ['Comedy'],
 'Romeo Is Bleeding (1993)': ['Crime', 'Thriller'],
 'Romper Stomper (1992)': ['Action', 'Drama'],
 'Ruby in Paradise (1993)': ['Drama'],
 'Rudy (1993)': ['Drama'],
 'Saint of Fort Washington, The (1993)': ['Drama'],
 'Savage Nights (Nuits fauves, Les) (1992)': ['Drama'],
 "Schindler's List (1993)": ['Drama', 'War'],
 'Scout, The (1994)': ['Drama'],
 'Searching for Bobby Fischer (1993)': ['Drama'],
 'Second Best (1994)': ['Drama'],
 'Secret Garden, The (1993)': ["Children's", 'Drama'],
 'Serial Mom (1994)': ['Comedy', 'Crime', 'Horror'],
 'Shadow, The (1994)': ['Action'],
 'Shadowlands (1993)': ['Drama', 'Romance'],
 'Short Cuts (1993)': ['Drama'],
 'Simple Twist of Fate, A (1994)': ['Drama'],
 'Sirens (1994)': ['Comedy', 'Drama'],
 'Six Degrees of Separation (1993)': ['Drama'],
 'Sleepless in Seattle (1993)': ['Comedy', 'Romance'],
 'Sliver (1993)': ['Thriller'],
 'Blade Runner (1982)': ['Film-Noir', 'Sci-Fi'],
 'Son in Law (1993)': ['Comedy'],
 'So I Married an Axe Murderer (1993)': ['Comedy', 'Romance', 'Thriller'],
 'Striking Distance (1993)': ['Action'],
 'Harlem (1993)': ['Drama'],
 'Super Mario Bros. (1993)': ['Action', 'Adventure', "Children's", 'Sci-Fi'],
 'Surviving the Game (1994)': ['Action', 'Adventure', 'Thriller'],
 'Terminal Velocity (1994)': ['Action'],
 'Thirty-Two Short Films About Glenn Gould (1993)': ['Documentary'],
 'Threesome (1994)': ['Comedy', 'Romance'],
 'Nightmare Before Christmas, The (1993)': ["Children's", 'Comedy', 'Musical'],
 'Three Musketeers, The (1993)': ['Action', 'Adventure', 'Comedy'],
 'Tombstone (1993)': ['Western'],
 'Trial by Jury (1994)': ['Thriller'],
 'True Romance (1993)': ['Action', 'Crime', 'Romance'],

'War Room, The (1993)': ['Documentary'],
 'Mamma Roma (1962)': ['Drama'],
 'Pagemaster, The (1994)': ['Action',
 'Adventure',
 'Animation',
 "Children's",
 'Fantasy'],
 'Paris, France (1993)': ['Comedy'],
 'Beans of Egypt, Maine, The (1994)': ['Drama'],
 'Killer (Bulletproof Heart) (1994)': ['Thriller'],
 'Welcome to the Dollhouse (1995)': ['Comedy', 'Drama'],
 'Germinal (1993)': ['Drama'],
 'Chasers (1994)': ['Comedy'],
 'Cronos (1992)': ['Horror'],
 'Naked in New York (1994)': ['Comedy', 'Romance'],
 'Kika (1993)': ['Drama'],
 'Bhaji on the Beach (1993)': ['Comedy', 'Drama'],
 'Little Big League (1994)': ["Children's", 'Comedy'],
 'Slingshot, The (K disbellan) (1993)': ['Comedy', 'Drama'],
 'Wedding Gift, The (1994)': ['Drama'],
 'Foreign Student (1994)': ['Drama'],
 'Ciao, Professore! (Io speriamo che me la cavo) (1993)': ['Drama'],
 'Spanking the Monkey (1994)': ['Comedy', 'Drama'],
 'Little Rascals, The (1994)': ["Children's", 'Comedy'],
 'Fausto (1993)': ['Comedy'],
 'Andre (1994)': ['Adventure', "Children's"],
 'Hour of the Pig, The (1993)': ['Drama', 'Mystery'],
 'Scorta, La (1993)': ['Thriller'],
 'Princess Caraboo (1994)': ['Drama'],
 'Celluloid Closet, The (1995)': ['Documentary'],
 'Metisse (Caf au Lait) (1993)': ['Comedy'],
 'Dear Diary (Caro Diario) (1994)': ['Comedy', 'Drama'],
 "I Don't Want to Talk About It (De eso no se habla) (1993)": ['Drama'],
 'Brady Bunch Movie, The (1995)': ['Comedy'],
 'Home Alone (1990)': ["Children's", 'Comedy'],
 'Ghost (1990)': ['Comedy', 'Romance', 'Thriller'],
 'Aladdin (1992)': ['Animation', "Children's", 'Comedy', 'Musical'],
 'Terminator 2: Judgment Day (1991)': ['Action', 'Sci-Fi', 'Thriller'],
 'Dances with Wolves (1990)': ['Adventure', 'Drama', 'Western'],
 'Tough and Deadly (1995)': ['Action', 'Drama', 'Thriller'],
 'Batman (1989)': ['Action', 'Adventure', 'Crime', 'Drama'],
 'Silence of the Lambs, The (1991)': ['Drama', 'Thriller'],
 'Snow White and the Seven Dwarfs (1937)': ['Animation',
 "Children's",
 'Musical'],
 'Beauty and the Beast (1991)': ['Animation', "Children's", 'Musical'],
 'Pinocchio (1940)': ['Animation', "Children's"],

'Pretty Woman (1990)': ['Comedy', 'Romance'],
 'Window to Paris (1994)': ['Comedy'],
 'Wild Bunch, The (1969)': ['Western'],
 'Love and a .45 (1994)': ['Thriller'],
 'Wooden Man's Bride, The (Wu Kui) (1994)': ['Drama'],
 'Great Day in Harlem, A (1994)': ['Documentary'],
 'Bye Bye, Love (1995)': ['Comedy'],
 'Criminals (1996)': ['Documentary'],
 'One Fine Day (1996)': ['Drama', 'Romance'],
 'Candyman: Farewell to the Flesh (1995)': ['Horror'],
 'Century (1993)': ['Drama'],
 ' Fargo (1996)': ['Crime', 'Drama', 'Thriller'],
 'Homeward Bound II: Lost in San Francisco (1996)': ['Adventure',
 "Children's"],
 'Heavy Metal (1981)': ['Action',
 'Adventure',
 'Animation',
 'Horror',
 'Sci-Fi'],
 'Hellraiser: Bloodline (1996)': ['Action', 'Horror', 'Sci-Fi'],
 'Pallbearer, The (1996)': ['Comedy'],
 'Jane Eyre (1996)': ['Drama', 'Romance'],
 'Loaded (1994)': ['Drama', 'Thriller'],
 'Bread and Chocolate (Pane e cioccolato) (1973)': ['Drama'],
 'Aristocats, The (1970)': ['Animation', "Children's"],
 'Flower of My Secret, The (La Flor de Mi Secreto) (1995)': ['Drama'],
 'Two Much (1996)': ['Comedy', 'Romance'],
 'Ed (1996)': ['Comedy'],
 'Scream of Stone (Schrei aus Stein) (1991)': ['Drama'],
 'My Favorite Season (1993)': ['Drama'],
 'Modern Affair, A (1995)': ['Romance'],
 'Condition Red (1995)': ['Action', 'Drama', 'Thriller'],
 'Asfour Stah (1990)': ['Drama'],
 'Thin Line Between Love and Hate, A (1996)': ['Comedy'],
 'Last Supper, The (1995)': ['Drama', 'Thriller'],
 'Primal Fear (1996)': ['Drama', 'Thriller'],
 'Rude (1995)': ['Drama'],
 'Carried Away (1996)': ['Drama', 'Romance'],
 'All Dogs Go to Heaven 2 (1996)': ['Animation', "Children's", 'Musical'],
 'Land and Freedom (Tierra y libertad) (1995)': ['War'],
 'Denise Calls Up (1995)': ['Comedy'],
 'Theodore Rex (1995)': ['Comedy'],
 'Family Thing, A (1996)': ['Comedy', 'Drama'],
 'Frisk (1995)': ['Drama'],
 'Sgt. Bilko (1996)': ['Comedy'],
 'Jack and Sarah (1995)': ['Romance'],
 'Girl 6 (1996)': ['Comedy'],

'Diabolique (1996)': ['Drama', 'Thriller'],
 'Little Indian, Big City (Un indien dans la ville) (1994)': ['Comedy'],
 'Roula (1995)': ['Drama'],
 'Peanuts - Die Bank zahlt alles (1996)': ['Comedy'],
 'Happy Weekend (1996)': ['Comedy'],
 'Nelly & Monsieur Arnaud (1995)': ['Drama'],
 'Courage Under Fire (1996)': ['Drama', 'War'],
 'Mission: Impossible (1996)': ['Action', 'Adventure', 'Mystery'],
 'Cold Fever (kldum klaka) (1994)': ['Comedy', 'Drama'],
 'Moll Flanders (1996)': ['Drama'],
 'Superweib, Das (1996)': ['Comedy'],
 '301, 302 (1995)': ['Mystery'],
 'Dragonheart (1996)': ['Action', 'Adventure', 'Fantasy'],
 'Und keiner weint mir nach (1996)': ['Drama', 'Romance'],
 'Mutters Courage (1995)': ['Comedy'],
 'Eddie (1996)': ['Comedy'],
 'Yankee Zulu (1994)': ['Comedy', 'Drama'],
 'Billy's Holiday (1995)': ['Drama'],
 'Purple Noon (1960)': ['Crime', 'Thriller'],
 'August (1996)': ['Drama'],
 'James and the Giant Peach (1996)': ['Animation', 'Children's', 'Musical'],
 'Fear (1996)': ['Thriller'],
 'Kids in the Hall: Brain Candy (1996)': ['Comedy'],
 'Faithful (1996)': ['Comedy'],
 'Underground (1995)': ['War'],
 'All Things Fair (1996)': ['Drama'],
 'Bloodsport 2 (1995)': ['Action'],
 'Pather Panchali (1955)': ['Drama'],
 'Aparajito (1956)': ['Drama'],
 'World of Apu, The (Apu Sansar) (1959)': ['Drama'],
 'Mystery Science Theater 3000: The Movie (1996)': ['Comedy', 'Sci-Fi'],
 'Tarantella (1995)': ['Drama'],
 'Space Jam (1996)': ['Adventure',
 'Animation',
 'Children's',
 'Comedy',
 'Fantasy'],
 'Barbarella (1968)': ['Adventure', 'Sci-Fi'],
 'Hostile Intentions (1994)': ['Action', 'Drama', 'Thriller'],
 'They Bite (1996)': ['Drama'],
 'Some Folks Call It a Sling Blade (1993)': ['Drama', 'Thriller'],
 'Run of the Country, The (1995)': ['Drama'],
 'Alphaville (1965)': ['Sci-Fi'],
 'Clean Slate (Coup de Torchon) (1981)': ['Crime'],
 'Tigrero: A Film That Was Never Made (1994)': ['Documentary', 'Drama'],
 'Eye of Vichy, The (Oeil de Vichy, L') (1993)': ['Documentary'],
 'Windows (1980)': ['Drama'],

"It's My Party (1995)": ['Drama'],
 'Country Life (1994)': ['Drama', 'Romance'],
 'Operation Dumbo Drop (1995)': ['Action', 'Adventure', 'Comedy', 'War'],
 'Promise, The (Versprechen, Das) (1994)': ['Romance'],
 'Mrs. Winterbourne (1996)': ['Comedy', 'Romance'],
 'Solo (1996)': ['Action', 'Sci-Fi', 'Thriller'],
 'Under the Domin Tree (Etz Hodomim Tafus) (1994)': ['Drama'],
 'Substitute, The (1996)': ['Action'],
 'True Crime (1995)': ['Mystery', 'Thriller'],
 'Butterfly Kiss (1995)': ['Thriller'],
 'Feeling Minnesota (1996)': ['Drama', 'Romance'],
 'Delta of Venus (1994)': ['Drama'],
 'To Cross the Rubicon (1991)': ['Drama'],
 'Angus (1995)': ['Comedy'],
 'Daens (1992)': ['Drama'],
 'Faces (1968)': ['Drama'],
 'Boys (1996)': ['Drama'],
 'Quest, The (1996)': ['Action', 'Adventure'],
 'Cosi (1996)': ['Comedy'],
 'Sunset Park (1996)': ['Drama'],
 'Mulholland Falls (1996)': ['Crime', 'Film-Noir', 'Thriller'],
 'Truth About Cats & Dogs, The (1996)': ['Comedy', 'Romance'],
 'Oliver & Company (1988)': ['Animation', "Children's"],
 'Celtic Pride (1996)': ['Comedy'],
 'Flipper (1996)': ['Adventure', "Children's"],
 'Captives (1994)': ['Drama'],
 'Of Love and Shadows (1994)': ['Drama'],
 'Dead Man (1995)': ['Western'],
 'Horseman on the Roof, The (Hussard sur le toit, Le) (1995)': ['Drama'],
 'Switchblade Sisters (1975)': ['Crime'],
 'Mouth to Mouth (Boca a boca) (1995)': ['Comedy'],
 'Visitors, The (Les Visiteurs) (1993)': ['Comedy', 'Sci-Fi'],
 'Multiplicity (1996)': ['Comedy'],
 'Wallace & Gromit: The Best of Aardman Animation (1996)': ['Animation'],
 'Halfmoon (Paul Bowles - Halbmond) (1995)': ['Drama'],
 'Haunted World of Edward D. Wood Jr., The (1995)': ['Documentary'],
 'Two Friends (1986)': ['Drama'],
 'Craft, The (1996)': ['Drama', 'Horror'],
 'Great White Hype, The (1996)': ['Comedy'],
 'Last Dance (1996)': ['Drama'],
 'War Stories (1995)': ['Documentary'],
 'Cold Comfort Farm (1995)': ['Comedy'],
 'Institute Benjamenta, or This Dream People Call Human Life (1995)': ['Drama'],
 'Low Life, The (1994)': ['Drama'],
 'Heaven's Prisoners (1996)': ['Mystery', 'Thriller'],
 'Original Gangstas (1996)': ['Crime'],
 'Rock, The (1996)': ['Action', 'Adventure', 'Thriller'],

'Getting Away With Murder (1996)': ['Comedy'],
 'Cemetery Man (Dellamorte Dellamore) (1994)': ['Comedy', 'Horror'],
 'Twister (1996)': ['Action', 'Adventure', 'Romance', 'Thriller'],
 'Barb Wire (1996)': ['Action', 'Sci-Fi'],
 'Garcu, Le (1995)': ['Drama'],
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 'Ghost in the Shell (Kokaku kidotai) (1995)': ['Animation', 'Sci-Fi'],
 'Thinner (1996)': ['Horror', 'Thriller'],
 'Spy Hard (1996)': ['Comedy'],
 'Brothers in Trouble (1995)': ['Drama'],
 'Close Shave, A (1995)': ['Animation', 'Comedy', 'Thriller'],
 'Force of Evil (1948)': ['Film-Noir'],
 'Stupids, The (1996)': ['Comedy'],
 'Arrival, The (1996)': ['Action', 'Sci-Fi', 'Thriller'],
 'Man from Down Under, The (1943)': ['Drama'],
 'Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb (1963)':
 ['Sci-Fi',
 'War'],
 'Careful (1992)': ['Comedy'],
 'Vermont Is For Lovers (1992)': ['Comedy', 'Romance'],
 'Month by the Lake, A (1995)': ['Comedy', 'Drama'],
 'Gold Diggers: The Secret of Bear Mountain (1995)': ['Adventure',
 "Children's"],
 'Kim (1950)': ["Children's", 'Drama'],
 'Carmen Miranda: Bananas Is My Business (1994)': ['Documentary'],
 'Ashes of Time (1994)': ['Drama'],
 'Jar, The (Khomreh) (1992)': ['Drama'],
 'Maya Lin: A Strong Clear Vision (1994)': ['Documentary'],
 'Stalingrad (1993)': ['War'],
 'Phantom, The (1996)': ['Adventure'],
 'Striptease (1996)': ['Comedy', 'Crime'],
 'Last of the High Kings, The (a.k.a. Summer Fling) (1996)': ['Drama'],
 'Heavy (1995)': ['Drama', 'Romance'],
 'Jack (1996)': ['Comedy', 'Drama'],
 'I Shot Andy Warhol (1996)': ['Drama'],
 'Grass Harp, The (1995)': ['Drama'],
 'Someone Else's America (1995)': ['Drama'],
 'Marlene Dietrich: Shadow and Light (1996)': ['Documentary'],
 'Costa Brava (1946)': ['Drama'],
 'Vie est belle, La (Life is Rosey) (1987)': ['Comedy', 'Drama'],
 'Quartier Mozart (1992)': ['Comedy'],
 'Touki Bouki (Journey of the Hyena) (1973)': ['Drama'],
 'Wend Kuuni (God's Gift) (1982)': ['Drama'],
 'Spirits of the Dead (Tre Passi nel Delirio) (1968)': ['Horror'],
 'Babyfever (1994)': ['Comedy', 'Drama'],
 'Pharaoh's Army (1995)': ['War'],
 'Trainspotting (1996)': ['Drama'],

"'Til There Was You (1997)": ['Drama', 'Romance'],
 'Independence Day (ID4) (1996)': ['Action', 'Sci-Fi', 'War'],
 'Stealing Beauty (1996)': ['Drama'],
 'Fan, The (1996)': ['Thriller'],
 'Hunchback of Notre Dame, The (1996)': ['Animation', 'Children's', 'Musical'],
 'Cable Guy, The (1996)': ['Comedy'],
 'Kingpin (1996)': ['Comedy'],
 'Eraser (1996)': ['Action', 'Thriller'],
 'Gate of Heavenly Peace, The (1995)': ['Documentary'],
 'Nutty Professor, The (1996)': ['Comedy', 'Fantasy', 'Romance', 'Sci-Fi'],
 'I, Worst of All (Yo, la peor de todas) (1990)': ['Drama'],
 'An Unforgettable Summer (1994)': ['Drama'],
 'Last Klezmer: Leopold Kozlowski, His Life and Music, The (1995)':
 ['Documentary'],
 'Hungarian Fairy Tale, A (1987)': ['Fantasy'],
 'My Life and Times With Antonin Artaud (En compagnie d'Antonin Artaud) (1993)':
 ['Drama'],
 'Midnight Dancers (Sibak) (1994)': ['Comedy', 'Drama'],
 'Somebody to Love (1994)': ['Drama'],
 'Very Natural Thing, A (1974)': ['Drama'],
 'Old Lady Who Walked in the Sea, The (Vieille qui marchait dans la mer, La)
 (1991)': ['Comedy'],
 'Daylight (1996)': ['Action', 'Adventure', 'Thriller'],
 'Frighteners, The (1996)': ['Comedy', 'Horror'],
 'Lone Star (1996)': ['Drama', 'Mystery'],
 'Harriet the Spy (1996)': ['Children's', 'Comedy'],
 'Phenomenon (1996)': ['Drama', 'Romance'],
 'Walking and Talking (1996)': ['Romance'],
 'She's the One (1996)': ['Comedy', 'Romance'],
 'Time to Kill, A (1996)': ['Drama'],
 'American Buffalo (1996)': ['Drama'],
 'Rendezvous in Paris (Rendez-vous de Paris, Les) (1995)': ['Comedy',
 'Romance'],
 'Alaska (1996)': ['Adventure', 'Children's'],
 'Fled (1996)': ['Action', 'Adventure'],
 'Kazaam (1996)': ['Children's', 'Comedy', 'Fantasy'],
 'Bewegte Mann, Der (1994)': ['Comedy'],
 'Magic Hunter (1994)': ['Drama'],
 'Larger Than Life (1996)': ['Comedy'],
 'Boy Called Hate, A (1995)': ['Drama'],
 'Power 98 (1995)': ['Action', 'Mystery', 'Thriller'],
 'Two Deaths (1995)': ['Drama'],
 'Very Brady Sequel, A (1996)': ['Comedy'],
 'Stefano Quantestorie (1993)': ['Comedy', 'Drama'],
 'Death in the Garden (Mort en ce jardin, La) (1956)': ['Drama'],
 'Crude Oasis, The (1995)': ['Romance'],
 'Hedd Wyn (1992)': ['Drama'],

'Collectionneuse, La (1967)': ['Drama'],
 'Kaspar Hauser (1993)': ['Drama'],
 'Echte Kerle (1996)': ['Comedy', 'Romance'],
 'Diebinnen (1995)': ['Drama'],
 'Convent, The (Convento, O) (1995)': ['Drama'],
 'Adventures of Pinocchio, The (1996)': ['Adventure', 'Children's'],
 'Joe's Apartment (1996)': ['Comedy', 'Musical'],
 'First Wives Club, The (1996)': ['Comedy'],
 'Stonewall (1995)': ['Drama'],
 'Ransom (1996)': ['Drama', 'Thriller'],
 'High School High (1996)': ['Comedy'],
 'Phat Beach (1996)': ['Comedy'],
 'Foxfire (1996)': ['Drama'],
 'Chain Reaction (1996)': ['Action', 'Adventure', 'Thriller'],
 'Matilda (1996)': ['Children's', 'Comedy'],
 'Emma (1996)': ['Comedy', 'Drama', 'Romance'],
 'Crow: City of Angels, The (1996)': ['Action', 'Thriller'],
 'House Arrest (1996)': ['Comedy'],
 'Eyes Without a Face (1959)': ['Horror'],
 'Tales from the Crypt Presents: Bordello of Blood (1996)': ['Horror'],
 'Lotto Land (1995)': ['Drama'],
 'Story of Xinghua, The (1993)': ['Drama'],
 'Day the Sun Turned Cold, The (Tianguo niezi) (1994)': ['Drama'],
 'Flirt (1995)': ['Drama'],
 'Big Squeeze, The (1996)': ['Comedy', 'Drama'],
 'Spitfire Grill, The (1996)': ['Drama'],
 'Escape from L.A. (1996)': ['Action', 'Adventure', 'Sci-Fi', 'Thriller'],
 'Cyclo (1995)': ['Crime', 'Drama'],
 'Basquiat (1996)': ['Drama'],
 'Tin Cup (1996)': ['Comedy', 'Romance'],
 'Dingo (1992)': ['Drama'],
 'Ballad of Narayama, The (Narayama Bushiko) (1958)': ['Drama'],
 'Every Other Weekend (1990)': ['Drama'],
 'Mille bolle blu (1993)': ['Comedy'],
 'Crows and Sparrows (1949)': ['Drama'],
 'Godfather, The (1972)': ['Action', 'Crime', 'Drama'],
 'Hippie Revolution, The (1996)': ['Documentary'],
 'Maybe, Maybe Not (Bewegte Mann, Der) (1994)': ['Comedy'],
 'Supercop (1992)': ['Action', 'Thriller'],
 'Manny & Lo (1996)': ['Drama'],
 'Celestial Clockwork (1994)': ['Comedy'],
 'Wife, The (1995)': ['Comedy', 'Drama'],
 'Small Faces (1995)': ['Drama'],
 'Bound (1996)': ['Crime', 'Drama', 'Romance', 'Thriller'],
 'Carpool (1996)': ['Comedy', 'Crime'],
 'Death in Brunswick (1991)': ['Comedy'],
 'Kansas City (1996)': ['Crime'],

"Gone Fishin' (1997)": ['Comedy'],
 "Lover's Knot (1996)": ['Comedy'],
 'Aiqing wansui (1994)': ['Drama'],
 'Shadow of Angels (Schatten der Engel) (1976)': ['Drama'],
 'Killer: A Journal of Murder (1995)': ['Crime', 'Drama'],
 'Nothing to Lose (1994)': ['Drama'],
 'Police Story 4: Project S (Chao ji ji hua) (1993)': ['Action'],
 'Girls Town (1996)': ['Drama'],
 'Bye-Bye (1995)': ['Drama'],
 'Relic, The (1997)': ['Horror'],
 'Island of Dr. Moreau, The (1996)': ['Sci-Fi', 'Thriller'],
 'First Kid (1996)': ['Children's', 'Comedy'],
 'Trigger Effect, The (1996)': ['Drama', 'Thriller'],
 'Sweet Nothing (1995)': ['Drama'],
 'Bogus (1996)': ['Children's', 'Drama', 'Fantasy'],
 'Bulletproof (1996)': ['Action'],
 'Talk of Angels (1998)': ['Drama'],
 'Land Before Time III: The Time of the Great Giving (1995)': ['Animation',
 "Children's"],
 '1-900 (1994)': ['Romance'],
 'Baton Rouge (1988)': ['Thriller'],
 'Halloween: The Curse of Michael Myers (1995)': ['Horror', 'Thriller'],
 'Twelfth Night (1996)': ['Comedy', 'Drama', 'Romance'],
 'Mother Night (1996)': ['Drama'],
 'Liebelei (1933)': ['Romance'],
 'Venice/Venice (1992)': ['Drama'],
 'Wild Reeds (1994)': ['Drama'],
 'For Whom the Bell Tolls (1943)': ['Adventure', 'War'],
 'Philadelphia Story, The (1940)': ['Comedy', 'Romance'],
 "Singin' in the Rain (1952)": ['Musical', 'Romance'],
 'American in Paris, An (1951)': ['Musical', 'Romance'],
 'Funny Face (1957)': ['Comedy', 'Musical'],
 'Breakfast at Tiffany's (1961)': ['Drama', 'Romance'],
 'Vertigo (1958)': ['Mystery', 'Thriller'],
 'Rear Window (1954)': ['Mystery', 'Thriller'],
 'It Happened One Night (1934)': ['Comedy'],
 'Gaslight (1944)': ['Mystery', 'Thriller'],
 'Gay Divorcee, The (1934)': ['Comedy', 'Musical', 'Romance'],
 'North by Northwest (1959)': ['Drama', 'Thriller'],
 'Apartment, The (1960)': ['Comedy', 'Drama'],
 'Some Like It Hot (1959)': ['Comedy', 'Crime'],
 'Charade (1963)': ['Comedy', 'Mystery', 'Romance', 'Thriller'],
 'Casablanca (1942)': ['Drama', 'Romance', 'War'],
 'Maltese Falcon, The (1941)': ['Film-Noir', 'Mystery'],
 'My Fair Lady (1964)': ['Musical', 'Romance'],
 'Sabrina (1954)': ['Comedy', 'Romance'],
 'Roman Holiday (1953)': ['Comedy', 'Romance'],

'Little Princess, The (1939)': ['Children's', 'Drama'],
 'Meet Me in St. Louis (1944)': ['Musical'],
 'Wizard of Oz, The (1939)': ['Adventure', 'Children's', 'Drama', 'Musical'],
 'Gone with the Wind (1939)': ['Drama', 'Romance', 'War'],
 'My Favorite Year (1982)': ['Comedy'],
 'Sunset Blvd. (a.k.a. Sunset Boulevard) (1950)': ['Film-Noir'],
 'Citizen Kane (1941)': ['Drama'],
 '2001: A Space Odyssey (1968)': ['Drama', 'Mystery', 'Sci-Fi', 'Thriller'],
 'Golden Earrings (1947)': ['Adventure', 'Romance'],
 'All About Eve (1950)': ['Drama'],
 'Women, The (1939)': ['Comedy'],
 'Rebecca (1940)': ['Romance', 'Thriller'],
 'Foreign Correspondent (1940)': ['Thriller'],
 'Notorious (1946)': ['Film-Noir', 'Romance', 'Thriller'],
 'Spellbound (1945)': ['Mystery', 'Romance', 'Thriller'],
 'Affair to Remember, An (1957)': ['Romance'],
 'To Catch a Thief (1955)': ['Comedy', 'Romance', 'Thriller'],
 'Father of the Bride (1950)': ['Comedy'],
 'Band Wagon, The (1953)': ['Comedy', 'Musical'],
 'Ninotchka (1939)': ['Comedy', 'Romance'],
 'Love in the Afternoon (1957)': ['Comedy', 'Romance'],
 'Gigi (1958)': ['Musical'],
 'Reluctant Debutante, The (1958)': ['Comedy', 'Drama'],
 'Adventures of Robin Hood, The (1938)': ['Action', 'Adventure'],
 'Mark of Zorro, The (1940)': ['Adventure'],
 'Laura (1944)': ['Crime', 'Film-Noir', 'Mystery'],
 'Ghost and Mrs. Muir, The (1947)': ['Drama', 'Romance'],
 'Lost Horizon (1937)': ['Drama'],
 'Top Hat (1935)': ['Comedy', 'Musical', 'Romance'],
 'To Be or Not to Be (1942)': ['Comedy', 'Drama', 'War'],
 'My Man Godfrey (1936)': ['Comedy'],
 'Giant (1956)': ['Drama'],
 'East of Eden (1955)': ['Drama'],
 'Thin Man, The (1934)': ['Mystery'],
 'His Girl Friday (1940)': ['Comedy'],
 'Around the World in 80 Days (1956)': ['Adventure', 'Comedy'],
 'It's a Wonderful Life (1946)': ['Drama'],
 'Mr. Smith Goes to Washington (1939)': ['Drama'],
 'Bringing Up Baby (1938)': ['Comedy'],
 'Penny Serenade (1941)': ['Drama', 'Romance'],
 'Scarlet Letter, The (1926)': ['Drama'],
 'Lady of Burlesque (1943)': ['Comedy', 'Mystery'],
 'Of Human Bondage (1934)': ['Drama'],
 'Angel on My Shoulder (1946)': ['Crime', 'Drama'],
 'Little Lord Fauntleroy (1936)': ['Drama'],
 'They Made Me a Criminal (1939)': ['Crime', 'Drama'],
 'Inspector General, The (1949)': ['Musical'],

'Angel and the Badman (1947)': ['Western'],
 '39 Steps, The (1935)': ['Thriller'],
 'Walk in the Sun, A (1945)': ['Drama'],
 'Outlaw, The (1943)': ['Western'],
 'Night of the Living Dead (1968)': ['Horror', 'Sci-Fi'],
 'African Queen, The (1951)': ['Action', 'Adventure', 'Romance', 'War'],
 'Beat the Devil (1954)': ['Comedy', 'Drama'],
 'Cat on a Hot Tin Roof (1958)': ['Drama'],
 'Last Time I Saw Paris, The (1954)': ['Drama'],
 'Meet John Doe (1941)': ['Drama'],
 'Algiers (1938)': ['Drama', 'Romance'],
 'Something to Sing About (1937)': ['Comedy', 'Musical'],
 'Farewell to Arms, A (1932)': ['Romance', 'War'],
 'Moonlight Murder (1936)': ['Mystery'],
 'Blue Angel, The (Blaue Engel, Der) (1930)': ['Drama'],
 'Nothing Personal (1995)': ['Drama', 'War'],
 'In the Line of Duty 2 (1987)': ['Action'],
 'Dangerous Ground (1997)': ['Drama'],
 'Picnic (1955)': ['Drama'],
 'Madagascar Skin (1995)': ['Romance'],
 'Pompatus of Love, The (1996)': ['Comedy', 'Drama'],
 'Small Wonders (1996)': ['Documentary'],
 'Fly Away Home (1996)': ['Adventure', 'Children's'],
 'Bliss (1997)': ['Drama', 'Romance'],
 'Grace of My Heart (1996)': ['Comedy', 'Drama'],
 'Schlafes Bruder (Brother of Sleep) (1995)': ['Drama'],
 'Maximum Risk (1996)': ['Action', 'Adventure', 'Thriller'],
 'Michael Collins (1996)': ['Drama', 'War'],
 'Rich Man's Wife, The (1996)': ['Thriller'],
 'Infinity (1996)': ['Drama'],
 'Big Night (1996)': ['Drama'],
 'Last Man Standing (1996)': ['Action', 'Drama', 'Western'],
 'Caught (1996)': ['Drama', 'Thriller'],
 'Set It Off (1996)': ['Action', 'Crime'],
 '2 Days in the Valley (1996)': ['Crime'],
 'Curdled (1996)': ['Crime'],
 'Associate, The (L'Associe)(1982)": ['Comedy'],
 'Ed's Next Move (1996)": ['Comedy'],
 'Extreme Measures (1996)': ['Drama', 'Thriller'],
 'Glimmer Man, The (1996)': ['Action', 'Thriller'],
 'D3: The Mighty Ducks (1996)': ["Children's", 'Comedy'],
 'Chamber, The (1996)': ['Drama'],
 'Apple Dumpling Gang, The (1975)': ["Children's", 'Comedy', 'Western'],
 'Davy Crockett, King of the Wild Frontier (1955)': ['Western'],
 'Escape to Witch Mountain (1975)': ['Adventure', 'Children's', 'Fantasy'],
 'Love Bug, The (1969)': ["Children's", 'Comedy'],
 'Herbie Rides Again (1974)': ['Adventure', 'Children's', 'Comedy'],

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'Old Yeller (1957)': ["Children's", 'Drama'],
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[63]: dict(master_data['title'])
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[63]: {0: "One Flew Over the Cuckoo's Nest (1975)",
1: "One Flew Over the Cuckoo's Nest (1975)",
2: "One Flew Over the Cuckoo's Nest (1975)",
3: "One Flew Over the Cuckoo's Nest (1975)",
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41: "One Flew Over the Cuckoo's Nest (1975)",
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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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982: "One Flew Over the Cuckoo's Nest (1975)",
983: "One Flew Over the Cuckoo's Nest (1975)",
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992: "One Flew Over the Cuckoo's Nest (1975)",
993: "One Flew Over the Cuckoo's Nest (1975)",
994: "One Flew Over the Cuckoo's Nest (1975)",
995: "One Flew Over the Cuckoo's Nest (1975)",
996: "One Flew Over the Cuckoo's Nest (1975)",
997: "One Flew Over the Cuckoo's Nest (1975)",
998: "One Flew Over the Cuckoo's Nest (1975)",
999: "One Flew Over the Cuckoo's Nest (1975)",
...}

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[64]: for index , title in dict(master_data['title']).items():
      for genre in movie_genres[title]:
          master_data.at[index,genre] = 1

```

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[66]: master_data.head(1)

```

```

[66]:  userid  gender  age  occupation  movieid  rating  \
0        1      F    1           10     1193        5

      title age_names  Adventure  Comedy  \
0  One Flew Over the Cuckoo's Nest (1975)  under 18        0        0

      Musical  Mystery  Thriller  Documentary  Film-Noir  Children's  Animation  \
0          0          0          0          0          0          0          0

      Fantasy  Sci-Fi  Western  Romance  Action  War  Crime  Drama  Horror
0          0          0          0          0          0          0          1          0

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[67]: #the features affecting the ratings of any particular movie.
      master_data.corr()[['rating']].T

```

```

[67]:  userid      age  occupation  movieid  rating  Adventure  Comedy  \
rating  0.012303  0.056869    0.006753 -0.064042        1.0  -0.036718 -0.039622

      Musical  Mystery  Thriller  Documentary  Film-Noir  Children's  \
rating  0.015643  0.015848 -0.004806    0.028098    0.060259   -0.039829

```

	Animation	Fantasy	Sci-Fi	Western	Romance	Action	War \
rating	0.01967	-0.023312	-0.044487	0.007311	0.009644	-0.047633	0.075688

	Crime	Drama	Horror
rating	0.033446	0.122561	-0.094353

```
[69]: master_data.corr()
```

```
[69]:
```

	userid	age	occupation	movieid	rating	Adventure \
userid	1.000000	0.034688	-0.026698	-0.017739	0.012303	-0.000683
age	0.034688	1.000000	0.078371	0.027575	0.056869	-0.016730
occupation	-0.026698	0.078371	1.000000	0.008585	0.006753	0.014309
movieid	-0.017739	0.027575	0.008585	1.000000	-0.064042	-0.082413
rating	0.012303	0.056869	0.006753	-0.064042	1.000000	-0.036718
Adventure	-0.000683	-0.016730	0.014309	-0.082413	-0.036718	1.000000
Comedy	-0.003651	-0.044046	-0.006149	0.061667	-0.039622	-0.124960
Musical	-0.000222	0.005158	-0.007312	-0.059381	0.015643	-0.022327
Mystery	0.004334	0.024308	0.002421	-0.028561	0.015848	-0.043503
Thriller	-0.001107	-0.014100	0.008981	-0.058418	-0.004806	-0.038423
Documentary	-0.001064	0.004407	-0.002689	-0.009544	0.028098	-0.035109
Film-Noir	0.004701	0.033495	0.005246	-0.019655	0.060259	-0.014178
Children's	-0.004862	-0.052858	-0.006906	-0.071589	-0.039829	0.098283
Animation	-0.007665	-0.047020	-0.003834	-0.014177	0.019670	0.004732
Fantasy	0.002212	-0.024222	0.001299	-0.018792	-0.023312	0.227046
Sci-Fi	-0.003283	-0.010879	0.026250	-0.011747	-0.044487	0.284190
Western	0.004114	0.038177	0.005924	0.003940	0.007311	-0.011964
Romance	0.006834	0.017503	-0.014018	-0.118375	0.009644	-0.024389
Action	-0.002023	-0.030975	0.018347	-0.042046	-0.047633	0.374961
War	0.003502	0.038446	0.010264	-0.081951	0.075688	0.016647
Crime	0.003469	-0.007931	0.002821	-0.061896	0.033446	-0.045924
Drama	0.006572	0.063856	-0.012326	-0.030856	0.122561	-0.194570
Horror	-0.001392	-0.023901	0.001439	0.057613	-0.094353	-0.057256

	Comedy	Musical	Mystery	Thriller	Documentary	Film-Noir \
userid	-0.003651	-0.000222	0.004334	-0.001107	-0.001064	0.004701
age	-0.044046	0.005158	0.024308	-0.014100	0.004407	0.033495
occupation	-0.006149	-0.007312	0.002421	0.008981	-0.002689	0.005246
movieid	0.061667	-0.059381	-0.028561	-0.058418	-0.009544	-0.019655
rating	-0.039622	0.015643	0.015848	-0.004806	0.028098	0.060259
Adventure	-0.124960	-0.022327	-0.043503	-0.038423	-0.035109	-0.014178
Comedy	1.000000	0.030566	-0.105346	-0.299501	-0.040697	-0.101425
Musical	0.030566	1.000000	-0.042581	-0.100690	-0.007155	-0.028384
Mystery	-0.105346	-0.042581	1.000000	0.225281	-0.018265	0.215354
Thriller	-0.299501	-0.100690	0.225281	1.000000	-0.043191	0.115231
Documentary	-0.040697	-0.007155	-0.018265	-0.043191	1.000000	-0.012175
Film-Noir	-0.101425	-0.028384	0.215354	0.115231	-0.012175	1.000000
Children's	0.058711	0.312567	-0.052786	-0.132642	-0.024901	-0.038033

Animation	0.018544	0.335231	-0.042488	-0.085713	-0.018991	0.037013
Fantasy	-0.006010	-0.020134	-0.039700	-0.087374	-0.017326	-0.026464
Sci-Fi	-0.187079	-0.068012	-0.028273	0.102546	-0.038568	-0.004056
Western	0.007927	-0.030245	-0.029727	-0.058897	-0.012974	-0.019816
Romance	0.112843	0.023506	-0.040162	-0.081384	-0.037137	-0.047351
Action	-0.268092	-0.100432	-0.054084	0.202756	-0.052565	-0.080288
War	-0.127101	-0.034429	-0.055482	-0.088018	-0.016082	-0.036984
Crime	-0.078030	-0.061179	0.080093	0.115095	-0.026243	0.136237
Drama	-0.249840	-0.094778	-0.027689	-0.153717	-0.062194	-0.067297
Horror	-0.093064	-0.018924	-0.002423	0.056629	-0.025673	-0.039157

	Children's	Animation	Fantasy	Sci-Fi	Western	Romance	\
userid	-0.004862	-0.007665	0.002212	-0.003283	0.004114	0.006834	
age	-0.052858	-0.047020	-0.024222	-0.010879	0.038177	0.017503	
occupation	-0.006906	-0.003834	0.001299	0.026250	0.005924	-0.014018	
movieid	-0.071589	-0.014177	-0.018792	-0.011747	0.003940	-0.118375	
rating	-0.039829	0.019670	-0.023312	-0.044487	0.007311	0.009644	
Adventure	0.098283	0.004732	0.227046	0.284190	-0.011964	-0.024389	
Comedy	0.058711	0.018544	-0.006010	-0.187079	0.007927	0.112843	
Musical	0.312567	0.335231	-0.020134	-0.068012	-0.030245	0.023506	
Mystery	-0.052786	-0.042488	-0.039700	-0.028273	-0.029727	-0.040162	
Thriller	-0.132642	-0.085713	-0.087374	0.102546	-0.058897	-0.081384	
Documentary	-0.024901	-0.018991	-0.017326	-0.038568	-0.012974	-0.037137	
Film-Noir	-0.038033	0.037013	-0.026464	-0.004056	-0.019816	-0.047351	
Children's	1.000000	0.576204	0.263280	-0.038844	-0.031269	-0.084550	
Animation	0.576204	1.000000	0.012025	-0.055526	-0.030908	-0.054540	
Fantasy	0.263280	0.012025	1.000000	0.121843	-0.028199	-0.014822	
Sci-Fi	-0.038844	-0.055526	0.121843	1.000000	-0.010935	-0.133752	
Western	-0.031269	-0.030908	-0.028199	-0.010935	1.000000	-0.044650	
Romance	-0.084550	-0.054540	-0.014822	-0.133752	-0.044650	1.000000	
Action	-0.141314	-0.110294	0.014551	0.319117	0.022242	-0.067830	
War	-0.066539	-0.046114	-0.044928	0.039314	-0.019803	0.053347	
Crime	-0.081977	-0.062520	-0.033745	-0.083730	-0.042711	-0.073320	
Drama	-0.135707	-0.154479	-0.096929	-0.212747	-0.045945	0.023552	
Horror	-0.077099	-0.049730	-0.055803	0.056505	-0.041784	-0.099434	

	Action	War	Crime	Drama	Horror
userid	-0.002023	0.003502	0.003469	0.006572	-0.001392
age	-0.030975	0.038446	-0.007931	0.063856	-0.023901
occupation	0.018347	0.010264	0.002821	-0.012326	0.001439
movieid	-0.042046	-0.081951	-0.061896	-0.030856	0.057613
rating	-0.047633	0.075688	0.033446	0.122561	-0.094353
Adventure	0.374961	0.016647	-0.045924	-0.194570	-0.057256
Comedy	-0.268092	-0.127101	-0.078030	-0.249840	-0.093064
Musical	-0.100432	-0.034429	-0.061179	-0.094778	-0.018924
Mystery	-0.054084	-0.055482	0.080093	-0.027689	-0.002423
Thriller	0.202756	-0.088018	0.115095	-0.153717	0.056629

Documentary	-0.052565	-0.016082	-0.026243	-0.062194	-0.025673
Film-Noir	-0.080288	-0.036984	0.136237	-0.067297	-0.039157
Children's	-0.141314	-0.066539	-0.081977	-0.135707	-0.077099
Animation	-0.110294	-0.046114	-0.062520	-0.154479	-0.049730
Fantasy	0.014551	-0.044928	-0.033745	-0.096929	-0.055803
Sci-Fi	0.319117	0.039314	-0.083730	-0.212747	0.056505
Western	0.022242	-0.019803	-0.042711	-0.045945	-0.041784
Romance	-0.067830	0.053347	-0.073320	0.023552	-0.099434
Action	1.000000	0.135872	0.088519	-0.202415	-0.042733
War	0.135872	1.000000	-0.079715	0.136582	-0.077985
Crime	0.088519	-0.079715	1.000000	0.070479	-0.047899
Drama	-0.202415	0.136582	0.070479	1.000000	-0.189551
Horror	-0.042733	-0.077985	-0.047899	-0.189551	1.000000

```
[68]: master_data.columns
```

```
[68]: Index(['userid', 'gender', 'age', 'occupation', 'movieid', 'rating', 'title',
         'age_names', 'Adventure', 'Comedy', 'Musical', 'Mystery', 'Thriller',
         'Documentary', 'Film-Noir', 'Children's', 'Animation', 'Fantasy',
         'Sci-Fi', 'Western', 'Romance', 'Action', 'War', 'Crime', 'Drama',
         'Horror'],
        dtype='object')
```

```
[70]: #Develop an appropriate model to predict the movie ratings.
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
```

```
[72]: x =
↳ master_data[['age', 'Animation', 'Documentary', 'Film-Noir', 'Romance', 'Horror', 'Musical', 'Children's', 'Fantasy', 'Sci-Fi', 'Western', 'Romance', 'Action', 'War', 'Crime', 'Drama', 'Horror']]
y = master_data['rating']
```

```
[73]: x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=.2)
```

```
[74]: model=LinearRegression()
```

```
[75]: model.fit(x_train,y_train)
```

```
[75]: LinearRegression()
```

```
[ ]:
```