

# AI of the 21st Century!

## Introduction to Recommender Systems

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About me



I am a Ph. D. student at North Carolina State University and my research interests include applying and implementing deep learning architectures and machine learning algorithms to solving real world problems. My goal is to improve the existing machine learning algorithms.

400

Time Left

1:22:47

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300

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100

## Learning Goal and Subgoals

Your goal is to learn all you can about the Circulatory System. Specifically, be sure to learn about all the different organs and other components of the circulatory system, and their purpose within the system, how they work both individually and together, and how they support the healthy functioning of the body.

## Your current subgoals are

Heartbeat	<input type="button" value="Complete Subgoal"/>
Heart components	<input type="button" value="Prioritize Subgoal"/> <input type="button" value="Add New Subgoal"/>

## Lung

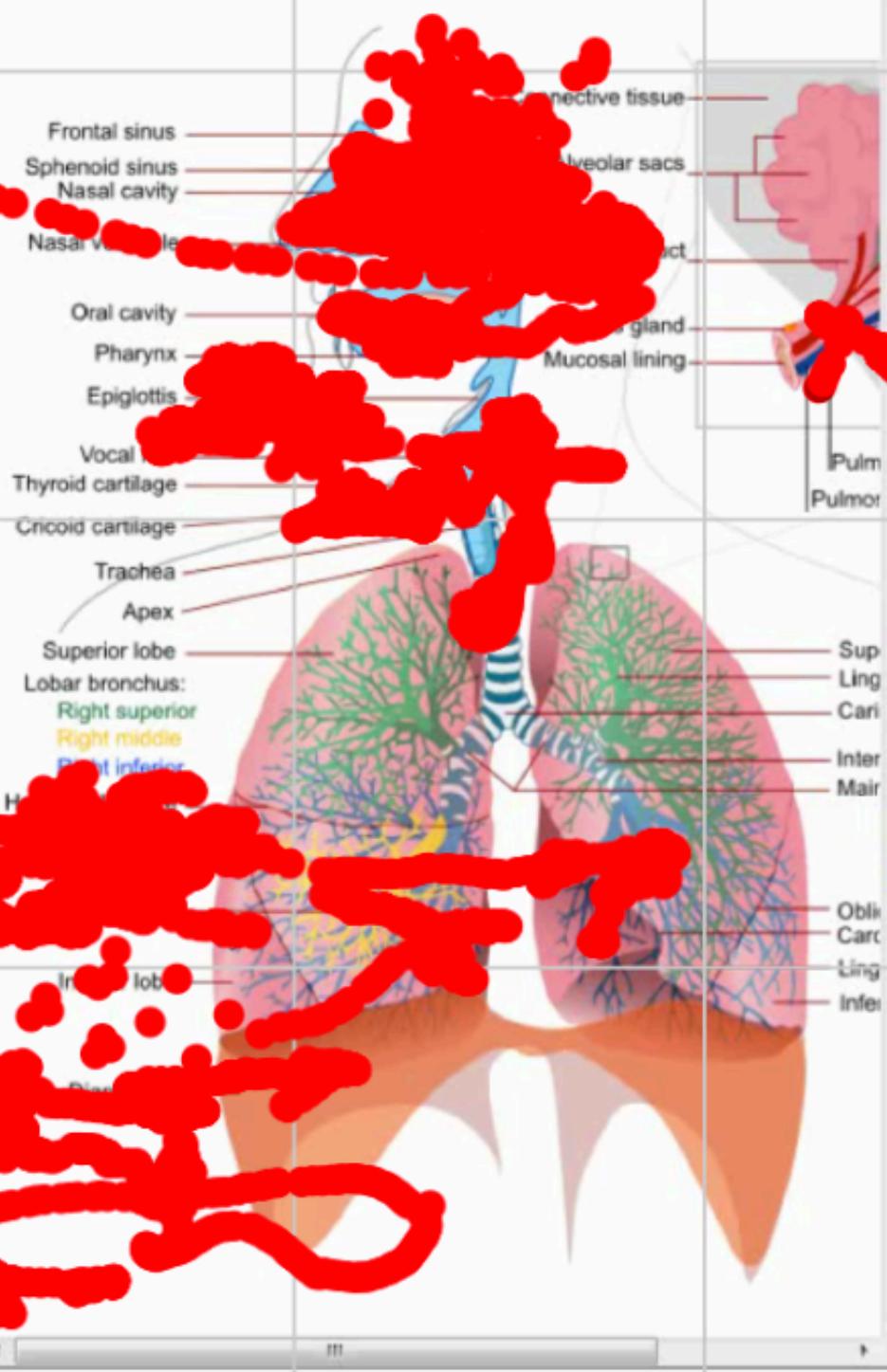
[See Contents in Full View](#)

## Lungs: Introduction

The lungs are important because they are where gases are exchanged between the respiratory system and the circulatory system. Air is circulating through the lungs, picks up oxygen, carries it to the heart, where it is pumped throughout the body. This is also where carbon dioxide is removed from the blood, back out into the air, to be exhaled. Oxygen enters the left atrium of the heart via the

Air travels through the nostrils or mouth, down the pharynx, past the vocal chords and through the trachea. The trachea splits into the left and right main stem bronchi, which split into smaller and smaller bronchioles, down to the alveoli (singular for alveolus). This structure is akin to a tree trunk splitting into smaller and smaller branches. Alveoli are grape like structures wrapped in capillaries and are where oxygen is transferred from the air to the red blood cells and carbon dioxide dissociates from red blood cells and enters the circulation.

There are between 300 and 500 million alveoli in one lung and if they were spread out, their surface area would occupy approximately 1,000 square feet, nearly 50 times the total surface area of the skin.



I would like to:  
[Plan my learning by...](#)

Telling what I already know about this

Monitor my learning by...

Assessing how well I understand this

Evaluating how well I already know this content

Evaluating how well this content matches my current subgoal

Apply a learning strategy:

- Set a goal
- Infer
- Summarize

[Take Survey Now](#)

**This presentation is running inside of a Jupyter Notebook**

## Github Link

#### A copy of this presentation, the hands-on codes that follow as well as the datasets we'll use during the hands-on session can be found in a github repository in this link: ####  
<http://go.ncsu.edu/recommender>

In [1]:

```
import platform  
print('Using Python version', platform.python_version())
```

Using Python version 3.6.8

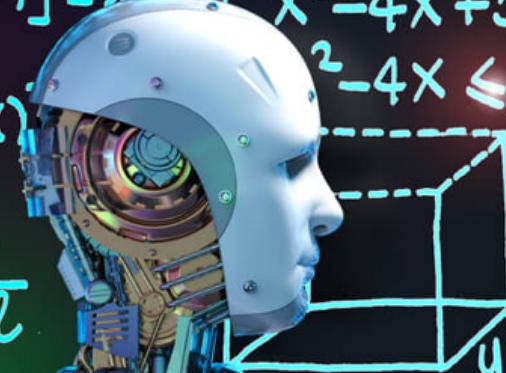
# Outline

- **Let's talk about AI today**
- Privacy vs Convenience
- Overview of Recommender Systems
- Methods for Building a Recommender System
- Implementing a Recommender System

**Let's talk about AI today**



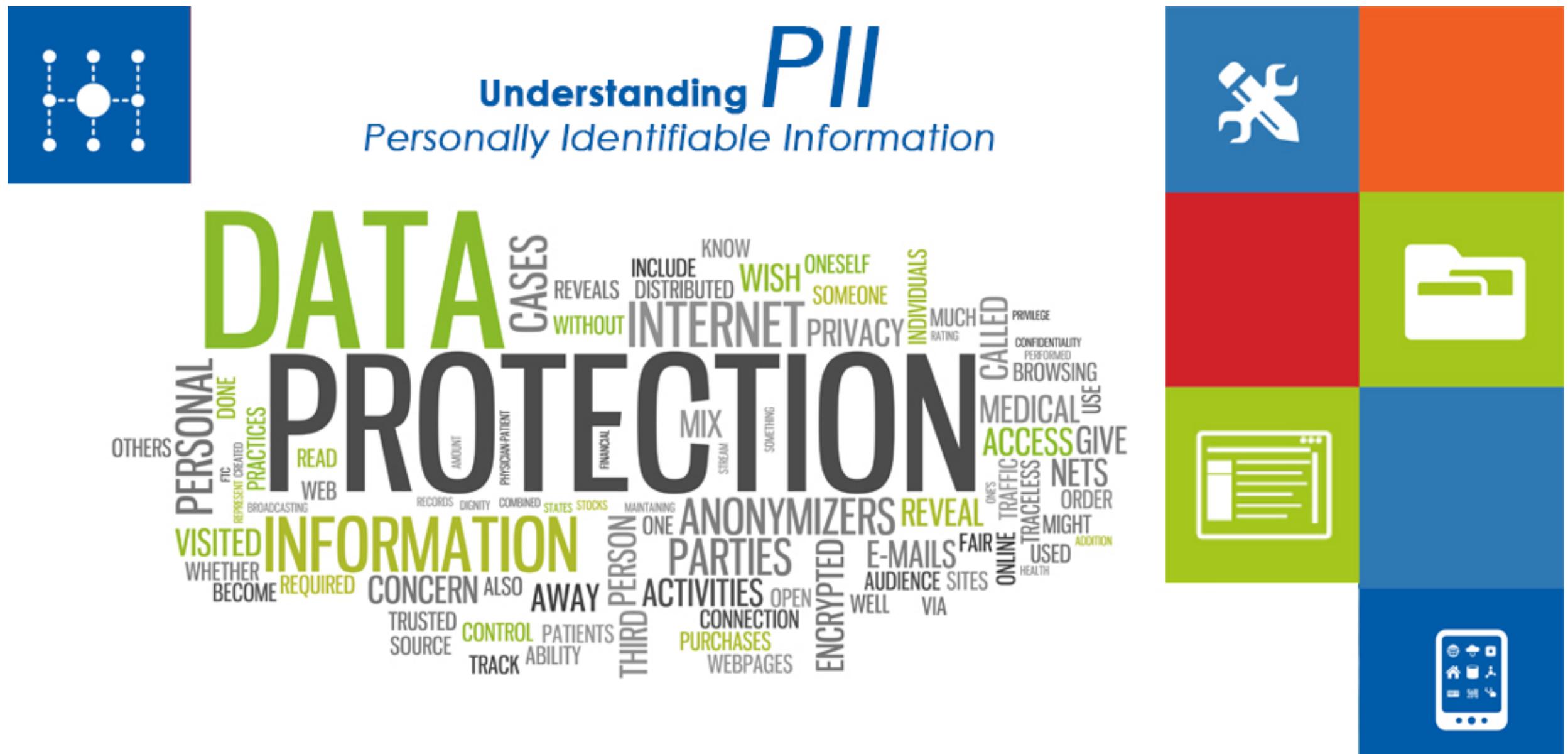
$(x+15)(x-6)=0$   
 $\int dx = \frac{\pi}{2}$   
 $\sqrt{a^2 - x^2} dx = \frac{\pi a^2}{4}$   
 $n(A \cup B \cup C) = n(A) + n(B) + n(C) - n(B \cap C) - n(A \cap C) - n(B \cap A) + n(A \cap B \cap C)$   
 $n(A) = 68$   
 $n(B) = 84$   
 $n(C) = 22$   
 $f(x) \leq 5$   
 $x^2 - 4x + 5 \leq 5$   
 $x^2 - 4x \leq 0$   
 $m[f(x) \pm g(x)] = l + m$   
 $m \cdot \frac{1}{f(x)} = \frac{1}{l}$   
 $n(B \cup C) = n(B) + n(C) - n(B \cap C)$   
 $\sqrt[n]{a^m} = a^{\frac{m}{n}}$   
 $\int_{0}^{1-x} dt = \frac{v-u}{v^2-u^2}$   
 $\Delta t = \frac{v-u}{2S}$   
 $2Cr(OH)_4^- + 2OH^- + 3H_2O_2 \rightarrow 2CrO_4^{2-} + 8H_2O$   
 $3Cu + 8HNO_3 \rightarrow 3Cu(NO_3)_2 + 2NO + 4H_2O$   
 $f = \{(x,y) \in R^+ \times R | x = a^y; a > 0, a \neq 1\}$   
 $n = 360^\circ/\theta - 1$   
 $z_1 = \frac{a \begin{vmatrix} D_1 & B_1 \\ D_2 & B_2 \end{vmatrix} - b \begin{vmatrix} D_1 & A_1 \\ D_2 & A_2 \end{vmatrix}}{a^2 + b^2 + c^2}$   
 $4 \frac{10}{15} - 4 \frac{2}{5} + 5 \frac{1}{3} = \frac{(15 \times 4) + 10}{15}$   
 $f_z = \frac{R}{2}$   
 $U = \frac{vf}{v-f}$   
 $\frac{1}{r} = \frac{1}{u} + \frac{1}{v}$   
 $v = \frac{uf}{u-f}$   
 $E = mc^2$   
 $g = \frac{Gm_e}{r^2}$   
 $O: 3y = 16 + y + \frac{x}{2}$   
 $MO. S + 8NO_2 \rightarrow MO + 7$





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Is Facebook listening  
to your conversations  
through Microphone?

**How Do They Know What I Like?**



# NAPPILY EVER AFTER



# Recommender Systems!



Source: [NewyorkTimes \(<https://bits.blogs.nytimes.com/2009/09/21/netflix-awards-1-million-prize-and-starts-a-new-contest/>\)](https://bits.blogs.nytimes.com/2009/09/21/netflix-awards-1-million-prize-and-starts-a-new-contest/)

## How does Diapers and Beers go together?





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There are 2 Most Popular Methods Behind These Genius Systems

- Content-based
- Collaborative Filtering
- Hybrid of Content-based and Collaborative Filtering

## **Content Based Method**

- Recommend product based on historical product features
- Exploits semantic relationships between historical purchases



## Downside to Content-Based Approaches

- Not refreshing
- Not personal

## **Upside to Content-Based Approaches**

- Does not face the cold start problem

## **Collaborative Filtering Method**

- Clusters similar users into a group

					
A					
B					
C					
D					
E					

Source: [DataTorrent \(https://www.youtube.com/watch?v=-R-krTgEOIM\)](https://www.youtube.com/watch?v=-R-krTgEOIM).

- Can you cluster any two users?
- Will user E be recommended a laptop?

## **Downside to Collaborative Filtering Approaches**

- Cold start problem when no or little purchase history is available
- Model needs to be updated regularly

## Upside to Collaborative Filtering Approaches

- Works well in providing cross domain recommendation
- Creates fresher and diverse recommendations for users based on his purchase history compared to content based

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## Instructions

- Go to "<http://go.ncsu.edu/recommender> (<http://go.ncsu.edu/recommender>)"
- Click on **Clone (If familiar with Git)** or **Download** to get the Github Project on your system
- Bring up your Command Line Interface (Windows) or Terminal(Mac)
- Using "cd" command, navigate to the "Recommender\_System\_Workshop" you just cloned or downloaded

## Section 1: Collaborative Filtering with Python

# Think about Clusters, We think Similarities

- If John loves it and John is similar to Mary, it's likely that Mary will love it too!

## Question

- From what we know about collaborative filtering, can anyone tell us what data/attributes we need for collaborative filtering?

## Answer

- Movies all users have watched
- Ratings by all users on all they movies they have watched

## Let's Code

The code used in this section was adapted from: [ai\\_society \(<https://ai-society.github.io/Collaborative-Filtering/>\)](https://ai-society.github.io/Collaborative-Filtering/). You can also modify it for other datasets as well.

In [4]:

```
#Import necessary libraries
import math
import pandas as pd
```

In [5]:

```
#Let's read our data into memory
ratings = pd.read_csv("twenty_users_ratings.csv", index_col=False)
ratings.tail(1000)
```

Out[5]:

	userId	movieId	rating	timestamp	movie_title	user_name
1139	11	3114	5.0	1230853680	Toy Story 2 (1999)	James
1140	11	3159	5.0	1230859507	Fantasia 2000 (1999)	James
1141	11	3213	3.0	1230859502	Batman: Mask of the Phantasm (1993)	James
1142	11	3247	4.5	1230854150	Sister Act (1992)	James
1143	11	3269	5.0	1230789266	Forever Young (1992)	James
1144	11	3300	4.0	1230788503	Pitch Black (2000)	James
1145	11	3396	0.5	1230782616	Muppet Movie, The (1979)	James
1146	11	3438	4.5	1230789252	Teenage Mutant Ninja Turtles (1990)	James
1147	11	3525	5.0	1230785908	Bachelor Party (1984)	James
1148	11	3527	4.5	1230788764	Predator (1987)	James
1149	11	3535	2.0	1230784884	American Psycho (2000)	James
1150	11	3578	4.5	1230859008	Gladiator (2000)	James
1151	11	3697	4.5	1230789135	Predator 2 (1990)	James
1152	11	3702	4.0	1230788726	Mad Max (1979)	James
1153	11	3703	3.0	1230788778	Road Warrior, The (Mad Max 2) (1981)	James
1154	11	3704	3.5	1230789353	Mad Max Beyond Thunderdome (1985)	James
1155	11	3745	4.5	1230788390	Titan A.E. (2000)	James
1156	11	3752	3.5	1230853817	Me, Myself & Irene (2000)	James
1157	11	3753	5.0	1251143388	Patriot, The (2000)	James
1158	11	3793	5.0	1230788886	X-Men (2000)	James
1159	11	3826	3.5	1230787667	Hollow Man (2000)	James
1160	11	3863	3.5	1230853813	Cell, The (2000)	James
1161	11	3864	4.0	1251170399	Godzilla 2000 (Gojira ni-sen mireniamu) (1999)	James

1162	11	3892	4.0	1230785081	Anatomy (Anatomie) (2000)	James
1163	11	3897	4.0	1230784412	Almost Famous (2000)	James
1164	11	3969	5.0	1230854128	Pay It Forward (2000)	James
1165	11	3980	4.0	1230854124	Men of Honor (2000)	James
1166	11	3988	4.0	1230854101	How the Grinch Stole Christmas (a.k.a. The Gri...	James
1167	11	3991	3.0	1230783076	102 Dalmatians (2000)	James
1168	11	3994	5.0	1251170238	Unbreakable (2000)	James
...	...	...	...	...	...	...
2109	19	880	3.0	855176989	Island of Dr. Moreau, The (1996)	Justin
2110	19	1073	5.0	855176684	Willy Wonka & the Chocolate Factory (1971)	Justin
2111	20	16	4.0	1126539588	Casino (1995)	Sarah
2112	20	19	2.5	1126539530	Ace Ventura: When Nature Calls (1995)	Sarah
2113	20	111	4.5	1126539863	Taxi Driver (1976)	Sarah
2114	20	235	3.5	1126539575	Ed Wood (1994)	Sarah
2115	20	370	2.0	1126539842	Naked Gun 33 1/3: The Final Insult (1994)	Sarah
2116	20	442	2.0	1126539534	Demolition Man (1993)	Sarah
2117	20	474	2.0	1126539515	In the Line of Fire (1993)	Sarah
2118	20	1080	4.0	1126539592	Monty Python's Life of Brian (1979)	Sarah
2119	20	1208	4.5	1126539560	Apocalypse Now (1979)	Sarah
2120	20	1221	4.0	1126539506	Godfather: Part II, The (1974)	Sarah
2121	20	1291	4.0	1126539851	Indiana Jones and the Last Crusade (1989)	Sarah
2122	20	1884	5.0	1126539710	Fear and Loathing in Las Vegas (1998)	Sarah
2123	20	1923	2.5	1126539523	There's Something About Mary (1998)	Sarah
2124	20	1961	3.0	1126539519	Rain Man (1988)	Sarah
2125	20	1994	4.0	1126539924	Poltergeist (1982)	Sarah
2126	20	2012	3.5	1126539602	Back to the Future Part III (1990)	Sarah
2127	20	2023	4.0	1126539808	Godfather: Part III, The (1990)	Sarah
2128	20	2054	2.5	1126539801	Honey, I Shrunk the Kids (1989)	Sarah
2129	20	2115	3.5	1126539606	Indiana Jones and the Temple of Doom (1984)	Sarah
2130	20	2571	4.0	1126539826	Matrix, The (1999)	Sarah
2131	20	2710	4.0	1126539586	Blair Witch Project, The (1999)	Sarah
2132	20	2987	3.0	1126539549	Who Framed Roger Rabbit? (1988)	Sarah
2133	20	3176	3.0	1126539815	Talented Mr. Ripley, The (1999)	Sarah
2134	20	3785	3.0	1126539891	Scary Movie (2000)	Sarah
2135	20	4306	3.5	1126539543	Shrek (2001)	Sarah
2136	20	4351	3.5	1126539896	Point Break (1991)	Sarah
2137	20	5952	3.5	1126539610	Lord of the Rings: The Two Towers, The (2002)	Sarah
2138	20	6807	3.5	1126539870	Monty Python's The Meaning of Life (1983)	Sarah

1000 rows × 6 columns

In [6]:

```
#Let's see all the users
ratings.user_name.unique()
```

Out[6]:

```
array(['Michael', 'Christopher', 'Jessica', 'Matthew', 'Ashley',
       'Jennifer', 'Joshua', 'Amanda', 'Daniel', 'David', 'James',
       'Robert', 'John', 'Joseph', 'Andrew', 'Ryan', 'Brandon', 'Jason',
       'Justin', 'Sarah'], dtype=object)
```

In [7]:

```
# Make a copy of our dataframe so that we don't accidentally modify it
ratings_dict = ratings.copy()
```

In [8]:

```
#Make a dictionary of users and the movies they rated
all_dict = dict()
for usr in ratings_dict.user_name:
    one_usr = ratings_dict[ratings_dict.user_name==usr]
    usr_dict = dict(zip(one_usr.movie_title, one_usr.rating))
    #all_dict = {usr: usr_dict}
    all_dict[str(usr)] = usr_dict

all_dict
```

Out[8]:

```
{'Amanda': {'Ace Ventura: Pet Detective (1994)': 3.0,
             'Ace Ventura: When Nature Calls (1995)': 1.0,
```

'Aladdin (1992)': 3.0,  
'Apollo 13 (1995)': 4.0,  
'Batman (1989)': 4.0,  
'Batman Forever (1995)': 3.0,  
'Beauty and the Beast (1991)': 3.0,  
'Braveheart (1995)': 5.0,  
'Clear and Present Danger (1994)': 5.0,  
'Client, The (1994)': 4.0,  
'Cliffhanger (1993)': 5.0,  
'Clueless (1995)': 3.0,  
'Crimson Tide (1995)': 4.0,  
'Crow, The (1994)': 3.0,  
'Dances with Wolves (1990)': 5.0,  
'Demolition Man (1993)': 4.0,  
'Die Hard: With a Vengeance (1995)': 3.0,  
'Dumb & Dumber (Dumb and Dumber) (1994)': 3.0,  
'Firm, The (1993)': 4.0,  
'First Knight (1995)': 3.0,  
'Flintstones, The (1994)': 2.0,  
'Forrest Gump (1994)': 5.0,  
'Four Weddings and a Funeral (1994)': 4.0,  
'French Kiss (1995)': 4.0,  
'Fugitive, The (1993)': 5.0,  
'Get Shorty (1995)': 4.0,  
'Ghost (1990)': 4.0,  
'GoldenEye (1995)': 4.0,  
'Grumpier Old Men (1995)': 5.0,  
'Heat (1995)': 3.0,  
'Heavy Metal (1981)': 4.0,  
'Interview with the Vampire: The Vampire Chronicles (1994)': 4.0,  
'Johnny Mnemonic (1995)': 1.0,  
'Judge Dredd (1995)': 3.0,  
'Jurassic Park (1993)': 4.0,  
'Legends of the Fall (1994)': 5.0,  
'Lion King, The (1994)': 4.0,  
'Mask, The (1994)': 3.0,  
'Milk Money (1994)': 3.0,  
'Miracle on 34th Street (1994)': 4.0,  
'Mission: Impossible (1996)': 5.0,  
'Mrs. Doubtfire (1993)': 4.0,  
'Natural Born Killers (1994)': 5.0,  
'Net, The (1995)': 2.0,  
'Nightmare Before Christmas, The (1993)': 4.0,  
'Outbreak (1995)': 4.0,  
'Philadelphia (1993)': 3.0,  
'Pocahontas (1995)': 4.0,  
'Pretty Woman (1990)': 5.0,  
'Pulp Fiction (1994)': 5.0,  
'Reality Bites (1994)': 4.0,  
'Rock, The (1996)': 4.0,  
"Schindler's List (1993)": 5.0,  
'Seven (a.k.a. Se7en) (1995)': 5.0,  
'Silence of the Lambs, The (1991)': 5.0,  
'Sleepless in Seattle (1993)': 4.0,  
'Speed (1994)': 4.0,  
'Star Trek: Generations (1994)': 3.0,  
'Stargate (1994)': 2.0,  
'Terminator 2: Judgment Day (1991)': 5.0,  
'Three Musketeers, The (1993)': 3.0,  
'Threesome (1994)': 4.0,  
'Tombstone (1993)': 5.0,  
'Toy Story (1995)': 4.0,  
'True Lies (1994)': 4.0,  
'Virtuosity (1995)': 2.0,  
'Walk in the Clouds, A (1995)': 4.0,  
'Waterworld (1995)': 3.0,  
'When a Man Loves a Woman (1994)': 4.0



'Firm, The (1993)': 5.0,  
'Fish Called Wanda, A (1988)': 5.0,  
'Fugitive, The (1993)': 5.0,  
'Ghost (1990)': 4.0,  
'Happy Gilmore (1996)': 2.0,  
'In the Name of the Father (1993)': 4.0,  
'Independence Day (a.k.a. ID4) (1996)': 5.0,  
'Indian in the Cupboard, The (1995)': 3.0,  
'Indiana Jones and the Last Crusade (1989)': 5.0,  
'Jerry Maguire (1996)': 5.0,  
'Jumanji (1995)': 3.0,  
'Jurassic Park (1993)': 4.0,  
  
'Lion King, The (1994)': 5.0,  
'Man Without a Face, The (1993)': 4.0,  
'Mary Poppins (1964)': 5.0,  
'Mask, The (1994)': 3.0,  
'Maverick (1994)': 5.0,  
'Mission: Impossible (1996)': 3.0,  
'Monty Python and the Holy Grail (1975)': 5.0,  
"Monty Python's Life of Brian (1979)": 5.0,  
"Mr. Holland's Opus (1995)": 5.0,  
'Mrs. Doubtfire (1993)': 5.0,  
'Mystery Science Theater 3000: The Movie (1996)': 5.0,  
'Naked Gun 33 1/3: The Final Insult (1994)': 4.0,  
'Nell (1994)': 4.0,  
'Nutty Professor, The (1996)': 3.0,  
'Philadelphia (1993)': 5.0,  
'Raiders of the Lost Ark (Indiana Jones and the Raiders of the Lost Ark) (1981)': 5.0,  
'Ransom (1996)': 5.0,  
'Remains of the Day, The (1993)': 3.0,  
'River Wild, The (1994)': 4.0,  
'Searching for Bobby Fischer (1993)': 4.0,  
'Secret Garden, The (1993)': 5.0,  
'Sense and Sensibility (1995)': 3.0,  
'Shawshank Redemption, The (1994)': 5.0,  
'Silence of the Lambs, The (1991)': 3.0,  
'Snow White and the Seven Dwarfs (1937)': 5.0,  
'Sound of Music, The (1965)': 5.0,  
'Speed (1994)': 5.0,  
'Star Wars: Episode IV - A New Hope (1977)': 5.0,  
'Star Wars: Episode V - The Empire Strikes Back (1980)': 5.0,  
'Star Wars: Episode VI - Return of the Jedi (1983)': 5.0,  
'Stargate (1994)': 4.0,  
'Terminator 2: Judgment Day (1991)': 5.0,  
'That Thing You Do! (1996)': 4.0,  
'True Lies (1994)': 5.0,  
'Truth About Cats & Dogs, The (1996)': 3.0,  
'Twister (1996)': 5.0,  
'Up Close and Personal (1996)': 2.0,  
'Wallace & Gromit: The Best of Aardman Animation (1996)': 5.0,  
'Willy Wonka & the Chocolate Factory (1971)': 2.0},  
'Brandon': {'Air Force One (1997)': 4.0,  
"America's Sweethearts (2001)": 4.0,  
'Austin Powers: The Spy Who Shagged Me (1999)': 5.0,  
'Back to the Future (1985)': 4.0,  
'Boot, Das (Boat, The) (1981)': 4.0,  
'Braveheart (1995)': 4.0,  
'Crouching Tiger, Hidden Dragon (Wo hu cang long) (2000)': 4.0,  
'Deep Impact (1998)': 3.0,  
'Enemy of the State (1998)': 4.0,  
'Fatal Attraction (1987)': 5.0,  
'Finding Forrester (2000)': 4.0,  
'Fugitive, The (1993)': 5.0,  
'Gladiator (2000)': 5.0,  
'Heat (1995)': 4.0,  
"Hunt for Red October, The (1990)": 4.0

'Hunt for Red October, The' (1990) : 4.0,  
'Jurassic Park' (1993) : 3.0,  
'Lethal Weapon 3' (1992) : 3.0,  
'Men in Black (a.k.a. MIB)' (1997) : 4.0,  
'Mission: Impossible' (1996) : 3.0,  
'Patriot Games' (1992) : 5.0,  
'Patriot, The' (2000) : 5.0,  
'Perfect Storm, The' (2000) : 4.0,  
'Princess Diaries, The' (2001) : 3.0,  
'Saving Private Ryan' (1998) : 5.0,  
'Speed' (1994) : 3.0,  
'World Is Not Enough, The' (1999) : 4.0},  
  
'Christopher': {'2001: A Space Odyssey' (1968) : 5.0,  
'28 Days' (2000) : 3.0,  
'Abbott and Costello Meet Frankenstein' (1948) : 5.0,  
'Airplane!' (1980) : 2.0,  
'Alien' (1979) : 5.0,  
'American Beauty' (1999) : 3.0,  
'Amityville Horror, The' (1979) : 5.0,  
'Any Given Sunday' (1999) : 4.0,  
'Back to the Future' (1985) : 5.0,  
'Blade Runner' (1982) : 5.0,  
'Boogie Nights' (1997) : 4.0,  
'Braveheart' (1995) : 4.0,  
'Creature from the Black Lagoon, The' (1954) : 5.0,  
'Dark City' (1998) : 5.0,  
'Edward Scissorhands' (1990) : 2.0,  
'Fantasia 2000' (1999) : 3.0,  
'Fantastic Voyage' (1966) : 5.0,  
'Farinelli: il castrato' (1994) : 3.0,  
'Femme Nikita, La (Nikita)' (1990) : 5.0,  
'Fistful of Dollars, A (Per un pugno di dollari)' (1964) : 4.0,  
'Fly, The' (1958) : 4.0,  
'Fly, The' (1986) : 4.0,  
"Freddy's Dead: The Final Nightmare (Nightmare on Elm Street Part 6: Freddy's Dead, A)" (1991) : 3.0,  
'Friday the 13th' (1980) : 5.0,  
'From Dusk Till Dawn' (1996) : 5.0,  
'From Russia with Love' (1963) : 5.0,  
'Glory Daze' (1995) : 3.0,  
'Grumpier Old Men' (1995) : 4.0,  
'Grumpy Old Men' (1993) : 5.0,  
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'Legends of the Fall' (1994) : 5.0,  
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"Mr. Holland's Opus" (1995) : 5.0,  
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'North by Northwest' (1959) : 4.0,  
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'Road Warrior, The (Mad Max 2)' (1981) : 4.0,  
'Rules of Engagement' (2000) : 5.0,  
'Runaway' (1984) : 4.0,  
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'Star Wars: Episode IV - A New Hope' (1977) : 5.0

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'Dirty Dozen, The (1967)': 4.0,  
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'From Russia with Love (1963)': 4.0,  
'Full Metal Jacket (1987)': 3.0,  
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'Planet of the Apes (1968)': 3.0,  
'Raiders of the Lost Ark (Indiana Jones and the Raiders of the Lost Ark) (1981)': 4.0,  
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'28 Days Later (2002)': 5.0,  
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'30 Days of Night (2007)': 2.0,  
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'40 Days and 40 Nights (2002)': 4.0,  
'40-Year-Old Virgin, The (2005)': 5.0,  
'50 First Dates (2004)': 4.5,  
'9 Songs (2004)': 5.0,  
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'AVP: Alien vs. Predator (2004)': 5.0,  
'AVPR: Aliens vs. Predator - Requiem (2007)': 5.0,  
'Abandoned, The (2006)': 3.0,  
'About a Boy (2002)': 5.0,  
'Accidental Husband, The (2009)': 4.0,  
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'Addams Family Values (1993)': 4.0,  
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'Adventures of Pinocchio, The (1996)': 4.0,  
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'After Sex (2007)': 3.5,  
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'Agent Cody Banks 2: Destination London (2004)': 2.0,  
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'Aladdin and the King of Thieves (1996)': 3.0,  
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'Alien: Resurrection (1997)': 5.0,  
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'Aliens of the Deep (2005)': 5.0,  
'Alien<sup>3</sup> (a.k.a. Alien 3) (1992)': 5.0,  
'All About My Mother (Todo sobre mi madre) (1999)': 3.5,  
'All Dogs Go to Heaven (1989)': 2.5,  
'All Dogs Go to Heaven 2 (1996)': 2.0,  
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'Along Came Polly (2004)': 4.5,  
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'American Wedding (American Pie 3) (2003)': 3.0,  
'American Werewolf in London, An (1981)': 4.0,  
'American Werewolf in Paris, An (1997)': 5.0,  
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'Anastasia (1997)': 3.0,  
'Anatomy (Anatomie) (2000)': 4.0,  
'Anchorman: The Legend of Ron Burgundy (2004)': 3.0,  
'And Your Mother Too (Y tu mamá también) (2001)': 4.0,  
'Anger Management (2003)': 1.0,  
'Animal, The (2001)': 4.0,  
'Animatrix, The (2003)': 5.0,  
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'Apollo 13 (1995)': 5.0,  
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'Armageddon (1998)': 5.0,  
'Army of Darkness (1993)': 3.0,  
'Arthur and the Invisibles (2007)': 3.5,  
'Ask the Dust (2006)': 1.5,  
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'Atlantis: The Lost Empire (2001)': 4.5,  
'August (2008)': 4.0,  
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'Bad Company (1995)': 3.5,  
'Bad Education (La mala educación) (2004)': 5.0,  
'Bad Moon (1996)': 4.5,  
'Bad Taste (1987)': 4.0,  
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'Bandidas (2006)': 2.0,  
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'Batman: Mask of the Phantasm (1993)': 3.0,  
'Battle Royale (Batoru rowaiaru) (2000)': 4.5,  
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'Beautiful Thing (1996)': 4.5,  
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'Blood: The Last Vampire (2000)': 5.0,  
  
'Bolt (2008)': 4.5,  
'Bowling for Columbine (2002)': 5.0,  
'Boy in the Striped Pajamas, The (Boy in the Striped Pyjamas, The) (2008)'  
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'Braveheart (1995)': 4.0,  
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'Bulletproof Monk (2003)': 4.0,  
'CJ7 (Cheung Gong 7 hou) (2008)': 5.0,  
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'Casper (1995)': 4.0,  
'Cave, The (2005)': 3.5,  
'Cell, The (2000)': 3.5,  
'Charlie and the Chocolate Factory (2005)': 5.0,  
"Charlie's Angels: Full Throttle (2003)": 3.5,  
'Chicken Little (2005)': 3.0,  
'Children of Men (2006)': 4.0,  
'Chronicles of Narnia: The Lion, the Witch and the Wardrobe, The (2005)'  
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'Chronicles of Riddick, The (2004)': 4.5,  
'Cinderella Man (2005)': 4.0,  
'City of God (Cidade de Deus) (2002)': 5.0,  
'Cloverfield (2008)': 3.5,  
'Clueless (1995)': 4.5,  
'Code 46 (2003)': 2.0,  
'Congo (1995)': 4.0,  
'Contact (1997)': 4.0,  
'Core, The (2003)': 2.5,  
'Cowboy Bebop: The Movie (Cowboy Bebop: Tengoku no Tobira) (2001)': 2.5,  
'Crash (2004)': 4.5,  
'Critters (1986)': 4.0,  
'Cube (1997)': 4.5,  
'Cube Zero (2004)': 4.5,  
'D-War (Dragon Wars) (2007)': 1.5,  
'D2: The Mighty Ducks (1994)': 4.0,  
'Dark City (1998)': 5.0,  
'Dark Crystal, The (1982)': 5.0,  
'Dark Knight, The (2008)': 5.0,  
'Dark Ride (2006)': 2.5,  
'Day After Tomorrow, The (2004)': 4.5,  
'Day of the Dead (1985)': 4.5,  
'Day the Earth Stood Still, The (1951)': 4.0,  
'Day the Earth Stood Still, The (2008)': 5.0,  
'Dazed and Confused (1993)': 1.5,  
'Death Race (2008)': 1.5,  
'Deep Blue Sea (1999)': 4.5,  
'Deep Impact (1998)': 4.5,  
'Demolition Man (1993)': 4.5,  
'Departed, The (2006)': 4.5,  
'Die Hard (1988)': 4.0,  
'Die Hard: With a Vengeance (1995)': 4.0,  
'District 13 (Banlieue 13) (2004)': 3.5,  
'Donnie Darko (2001)': 5.0,  
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'Double Dragon' (1994)' : 4.0,  
"Dracula (Bram Stoker's Dracula) (1992)": 5.0,  
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'Dragonheart' (1996)' : 4.5,  
'Dreamcatcher' (2003)' : 5.0,  
"Dude, Where's My Car? (2000)": 2.0,  
'Dumb & Dumber (Dumb and Dumber)' (1994)' : 4.0,  
'Dumbo' (1941)' : 3.5,  
'Déjà Vu (Deja Vu)' (2006)' : 4.5,  
'E.T. the Extra-Terrestrial' (1982)' : 4.5,  
  
'Edward Scissorhands' (1990)' : 5.0,  
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'Elephant Man, The' (1980)' : 4.5,  
'End of Days' (1999)' : 5.0,  
'Enemy Mine' (1985)' : 5.0,  
'Equilibrium' (2002)' : 5.0,  
'Eternal Sunshine of the Spotless Mind' (2004)' : 5.0,  
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'Evolution' (2001)' : 3.0,  
'Faculty, The' (1998)' : 5.0,  
'Fahrenheit 9/11' (2004)' : 3.5,  
'Fantasia 2000' (1999)' : 5.0,  
'Fantastic Four' (2005)' : 4.0,  
'Fantastic Four: Rise of the Silver Surfer' (2007)' : 4.5,  
'Fargo' (1996)' : 3.5,  
'Fast and the Furious, The' (1995)' : 4.5,  
'Fifth Element, The' (1997)' : 4.5,  
'Fight Club' (1999)' : 4.5,  
'Final Fantasy VII: Advent Children' (2004)' : 5.0,  
'Final Fantasy: The Spirits Within' (2001)' : 4.5,  
'Finding Nemo' (2003)' : 5.0,  
'Fly, The' (1986)' : 5.0,  
'Food, Inc.' (2008)' : 5.0,  
'Forever Young' (1992)' : 5.0,  
'Forgotten, The' (2004)' : 4.5,  
'Forrest Gump' (1994)' : 5.0,  
'Friday the 13th Part IV: The Final Chapter' (1984)' : 0.5,  
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'Ghost in the Shell 2: Innocence (a.k.a. Innocence) (Inosensu)' (2004)' : 4.  
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'Ghostbusters (a.k.a. Ghost Busters)' (1984)' : 5.0,  
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'Godfather, The' (1972)' : 2.5,  
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'Godzilla' (1998)' : 4.0,  
'Godzilla 2000 (Gojira ni-sen mireniamu)' (1999)' : 4.0,  
'GoldenEye' (1995)' : 2.5,  
'Goodfellas' (1990)' : 1.5,  
'Gran Torino' (2008)' : 4.0,  
'Gremlins 2: The New Batch' (1990)' : 4.5,  
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'Grizzly Man' (2005)' : 5.0,  
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'Halloween' (1978)' : 1.0,  
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'Hellboy II: The Golden Army (2008)': 4.5,  
'Hellraiser: Bloodline (1996)': 3.5,  
'Hero Wanted (2008)': 0.5,  
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'Highlander III: The Sorcerer (a.k.a. Highlander: The Final Dimension) (1994)': 3.5,  
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'Hollow Man (2000)': 3.5,  
'Home Alone (1990)': 4.0,  
'How the Grinch Stole Christmas (a.k.a. The Grinch) (2000)': 4.0,  
"Howl's Moving Castle (Hauru no ugoku shiro) (2004)": 5.0,  
'Hulk (2003)': 4.0,  
'I Am Legend (2007)': 5.0,  
'I, Robot (2004)': 5.0,  
'Immortel (ad vitam) (Immortal) (2004)': 5.0,  
'Impostor (2002)': 4.5,  
'Incredible Hulk, The (2008)': 4.0,  
'Independence Day (a.k.a. ID4) (1996)': 5.0,  
'Indiana Jones and the Kingdom of the Crystal Skull (2008)': 2.5,  
'Indiana Jones and the Last Crusade (1989)': 4.5,  
'Inspector Gadget (1999)': 4.0,  
'Interview with the Vampire: The Vampire Chronicles (1994)': 4.5,  
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'Ip Man (2008)': 4.0,  
'Iron Giant, The (1999)': 4.5,  
'Iron Man (2008)': 5.0,  
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'Island, The (2005)': 4.0,  
'Italian Job, The (2003)': 3.5,  
'Jason X (2002)': 3.0,  
'Jaws (1975)': 4.0,  
'Johnny Mnemonic (1995)': 5.0,  
'Journey to the Center of the Earth (2008)': 3.5,  
'Judge Dredd (1995)': 5.0,  
'Jumper (2008)': 3.0,  
'Junior (1994)': 5.0,  
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'Kill Bill: Vol. 1 (2003)': 4.0,  
'King Arthur (2004)': 4.0,  
'King Kong (2005)': 5.0,  
"Knight's Tale, A (2001)": 5.0,  
'Knowing (2009)': 4.0,  
'Kung Fu Hustle (Gong fu) (2004)': 5.0,  
'Kung Fu Panda: Secrets of the Furious Five (2008)': 4.0,  
'Langoliers, The (1995)': 3.5,  
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'Last Mimzy, The (2007)': 3.5,  
'League of Extraordinary Gentlemen, The (a.k.a. LXG) (2003)': 4.0,  
'Legend (1985)': 3.0,  
'Licence to Kill (1989)': 0.5,  
'Lilo & Stitch (2002)': 4.5,  
'Lilya 4-Ever (Lilja 4-ever) (2002)': 5.0,  
'Lion King, The (1994)': 4.0,  
'Liquid Sky (1982)': 4.0,  
'Little Miss Sunshine (2006)': 5.0,  
'Lord of the Rings: The Fellowship of the Ring, The (2001)': 5.0,  
'Lord of the Rings: The Return of the King, The (2003)': 5.0,  
'Lord of the Rings: The Two Towers, The (2002)': 5.0

'Lord of the Rings: The Two Towers, The (2002)': 5.0,  
'Lost World: Jurassic Park, The (1997)': 5.0,  
'Lost in Translation (2003)': 2.0,  
'Love and Other Disasters (2006)': 4.0,  
'Mac and Me (1988)': 5.0,  
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'Mary Poppins (1964)': 4.0,  
'Mask, The (1994)': 4.0,  
'Masters of the Universe (1987)': 3.5,  
  
'Matrix Reloaded, The (2003)': 5.0,  
'Matrix Revolutions, The (2003)': 5.0,  
'Matrix, The (1999)': 5.0,  
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'Meet Dave (2008)': 3.0,  
'Meet the Robinsons (2007)': 3.5,  
'Memento (2000)': 5.0,  
'Memoirs of a Geisha (2005)': 5.0,  
'Men in Black (a.k.a. MIB) (1997)': 5.0,  
'Men in Black II (a.k.a. MIIB) (a.k.a. MIB 2) (2002)': 5.0,  
'Men of Honor (2000)': 4.0,  
'Metro (1997)': 1.0,  
'Million Dollar Baby (2004)': 5.0,  
'Minority Report (2002)': 4.5,  
'Mission: Impossible (1996)': 4.0,  
'Mist, The (2007)': 5.0,  
'Monty Python and the Holy Grail (1975)': 4.5,  
'Mr. & Mrs. Smith (2005)': 4.5,  
"Mr. Magorium's Wonder Emporium (2007)": 4.5,  
'Mrs. Doubtfire (1993)': 4.5,  
'Muppet Movie, The (1979)': 0.5,  
'My Big Fat Greek Wedding (2002)': 4.5,  
'My Bodyguard (1980)': 4.5,  
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'My Neighbor Totoro (Tonari no Totoro) (1988)': 5.0,  
'Mystery Science Theater 3000: The Movie (1996)': 0.5,  
"National Lampoon's Van Wilder (2002)": 4.0,  
'National Treasure (2004)': 4.5,  
'Nausicaä of the Valley of the Wind (Kaze no tani no Naushika) (1984)': 4.

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'Nemesis 2: Nebula (1995)': 0.5,  
'Net, The (1995)': 4.0,  
'New Police Story (Xin jing cha gu shi) (2004)': 4.5,  
'Next (2007)': 4.0,  
'Night of the Living Dead (1968)': 5.0,  
'Nightmare Before Christmas, The (1993)': 5.0,  
'Not Another Teen Movie (2001)': 4.5,  
'One, The (2001)': 5.0,  
"Pan's Labyrinth (Laberinto del fauno, El) (2006)": 4.5,  
'Panic Room (2002)': 4.5,  
'Paprika (Papurika) (2006)': 4.5,  
'Pathology (2008)': 4.5,  
'Patriot, The (2000)': 5.0,  
'Pay It Forward (2000)': 5.0,  
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'Pitch Black (2000)': 4.0,  
'Planet Terror (2007)': 4.0,  
'Planet of the Apes (2001)': 4.5,  
'Pokémon: The First Movie (1998)': 4.0

'Pokemon: The First Movie (1998)': 4.0,  
'Polar Express, The (2004)': 5.0,  
'Police Academy (1984)': 3.0,  
'Predator (1987)': 4.5,  
'Predator 2 (1990)': 4.5,  
'Pretty Woman (1990)': 4.5,  
'Princess Bride, The (1987)': 4.0,  
'Princess Mononoke (Mononoke-hime) (1997)': 5.0,  
'Professional, The (Le professionnel) (1981)': 4.0,  
'Pulp Fiction (1994)': 3.5,  
'Pulse (2006)': 3.5,  
'Punisher, The (2004)': 3.5,  
  
'Push (2009)': 4.5,  
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'Raiders of the Lost Ark (Indiana Jones and the Raiders of the Lost Ark) (1981)': 4.0,  
'Rain Man (1988)': 3.5,  
'Ratatouille (2007)': 4.5,  
'Reign of Fire (2002)': 4.5,  
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'Resident Evil: Extinction (2007)': 3.0,  
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'RoboCop (1987)': 3.5,  
'RoboCop 3 (1993)': 1.0,  
'Robots (2005)': 3.5,  
'Save the Last Dance (2001)': 4.0,  
'Saving Private Ryan (1998)': 5.0,  
'Saw II (2005)': 1.5,  
'Scanner Darkly, A (2006)': 5.0,  
'Scarface (1983)': 2.0,  
'Scary Movie 2 (2001)': 5.0,  
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'School of Rock (2003)': 5.0,  
'Secret Garden, The (1993)': 4.5,  
'Sex and Breakfast (2007)': 3.5,  
'Shakespeare in Love (1998)': 4.5,  
'Shark Tale (2004)': 4.0,  
'Shawshank Redemption, The (1994)': 5.0,  
'Showtime (2002)': 3.0,  
'Shrek (2001)': 4.5,  
'Signs (2002)': 4.5,  
'Silence of the Lambs, The (1991)': 5.0,  
'Sister Act (1992)': 4.5,  
'Sixth Sense, The (1999)': 5.0,  
'Sky Captain and the World of Tomorrow (2004)': 4.0,  
'Skyline (2010)': 1.0,  
'Sleeper (1973)': 0.5,  
'Slither (2006)': 0.5,  
'Southland Tales (2006)': 1.0,  
'Space Jam (1996)': 5.0,  
'Spaceballs (1987)': 4.0,  
'Spawn (1997)': 5.0,  
'Species II (1998)': 1.0,  
'Speed (1994)': 4.0,  
'Spider-Man (2002)': 5.0,  
'Spider-Man 2 (2004)': 4.5,  
'Spider-Man 3 (2007)': 4.5,  
'Spirited Away (Sen to Chihiro no kamikakushi) (2001)': 4.5,  
'Spriggan (Supurigan) (1998)': 3.0,  
'Spy Kids (2001)': 2.5,  
'Star Wars: Episode I - The Phantom Menace (1999)': 4.5,  
'Star Wars: Episode II - Attack of the Clones (2002)': 4.5,  
'Star Wars: Episode III - Revenge of the Sith (2005)': 5.0

'Star Wars: Episode III - Revenge of the Sith (2005)': 5.0,  
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'Star Wars: Episode V - The Empire Strikes Back (1980)': 5.0,  
'Star Wars: Episode VI - Return of the Jedi (1983)': 4.5,  
'Stargate (1994)': 3.5,  
'Starship Troopers (1997)': 4.5,  
'Starship Troopers 2: Hero of the Federation (2004)': 0.5,  
'Starship Troopers 3: Marauder (2008)': 0.5,  
'Stay Alive (2006)': 5.0,  
'Stealth (2005)': 0.5,  
'Steamboy (Suchimubōi) (2004)': 4.5,  
'Stigmata (1999)': 4.0,

'Street Fighter II: The Animated Movie (Sutorîto Faitâ II gekijô-ban) (1994)': 4.5,  
'Sum of All Fears, The (2002)': 3.5,  
'Sunshine (2007)': 5.0,  
'Super Mario Bros. (1993)': 5.0,  
'Superhero Movie (2008)': 2.0,  
'Superman II (1980)': 3.0,  
'Superman III (1983)': 4.0,  
'Superman Returns (2006)': 3.0,  
'Sweeney Todd: The Demon Barber of Fleet Street (2007)': 5.0,  
'Teenage Mutant Ninja Turtles (1990)': 4.5,  
'Terminator 2: Judgment Day (1991)': 4.5,  
'Terminator 3: Rise of the Machines (2003)': 3.5,  
'Terminator, The (1984)': 5.0,  
'The Butterfly Effect (2004)': 5.0,  
'The Butterfly Effect 2 (2006)': 1.0,  
'The Butterfly Effect 3: Revelations (2009)': 0.5,  
'Time Machine, The (2002)': 5.0,  
'Titan A.E. (2000)': 4.5,  
'Titanic (1997)': 4.0,  
'Total Recall (1990)': 5.0,  
'Toy Story (1995)': 4.5,  
'Toy Story 2 (1999)': 5.0,  
'Transformers (2007)': 4.5,  
'Transformers: Revenge of the Fallen (2009)': 5.0,  
'Transformers: The Movie (1986)': 2.0,  
'Treasure Planet (2002)': 5.0,  
'Tremors (1990)': 4.5,  
'Tremors 3: Back to Perfection (2001)': 3.5,  
'Tremors II: Aftershocks (1996)': 4.0,  
'Tron (1982)': 4.5,  
'Troy (2004)': 4.5,  
'True Lies (1994)': 5.0,  
'Twelve Monkeys (a.k.a. 12 Monkeys) (1995)': 5.0,  
'Twister (1996)': 5.0,  
'Ultraviolet (2006)': 2.5,  
'Unbreakable (2000)': 5.0,  
'Undead (2003)': 2.0,  
'Underdog (2007)': 3.0,  
'V for Vendetta (2006)': 4.0,  
'WALL•E (2008)': 5.0,  
'War of the Worlds (2005)': 5.0,  
'War of the Worlds 2: The Next Wave (2008)': 0.5,  
'WarGames (1983)': 5.0,  
'Watchmen (2009)': 5.0,  
'Waterworld (1995)': 4.5,  
'We Were Soldiers (2002)': 4.5,  
'Weird Science (1985)': 5.0,  
'Welcome Home, Roscoe Jenkins (2008)': 5.0,  
'Willy Wonka & the Chocolate Factory (1971)': 5.0,  
'X-Files: I Want to Believe, The (2008)': 4.5,  
'X-Men (2000)': 5.0,  
'X-Men Origins: Wolverine (2009)': 5.0,  
'X-Men: The Last Stand (2006)': 5.0,  
'X2: X-Men United (2003)': 5.0

'X2: X-Men United' (2003) : 5.0,  
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'Jason': {'101 Dalmatians (One Hundred and One Dalmatians) (1961)': 3.0,  
'8 Women (2002)': 3.5,  
'Aladdin (1992)': 4.0,  
'All About My Mother (Todo sobre mi madre) (1999)': 5.0,  
"Amelie (Fabuleux destin d'Amélie Poulain, Le) (2001)": 5.0,  
'American Beauty (1999)': 3.5,  
'And Your Mother Too (Y tu mamá también) (2001)': 5.0,  
'Annie Hall (1977)': 4.5,  
'Arizona Dream (1993)': 4.5,  
'As Good as It Gets (1997)': 4.0,  
  
'Atonement (2007)': 4.5,  
'Back to the Future (1985)': 2.0,  
'Batman (1989)': 3.0,  
'Being John Malkovich (1999)': 4.0,  
'Best of Youth, The (La meglio gioventù) (2003)': 5.0,  
'Billy Elliot (2000)': 3.5,  
'Blue Lagoon, The (1980)': 2.0,  
'Body Snatchers (1993)': 1.0,  
'Brokeback Mountain (2005)': 4.5,  
'Caramel (Sukkar banat) (2007)': 4.0,  
'Casablanca (1942)': 5.0,  
'Changeling (2008)': 4.5,  
"Charlie Wilson's War (2007)": 3.5,  
'Chinatown (1974)': 4.5,  
'City of God (Cidade de Deus) (2002)': 5.0,  
'Clockwork Orange, A (1971)': 4.0,  
'Closer (2004)': 3.0,  
'Color Purple, The (1985)': 3.0,  
'Das Experiment (Experiment, The) (2001)': 4.0,  
'Downfall (Untergang, Der) (2004)': 4.5,  
'Elegy (2008)': 4.5,  
'Eternal Sunshine of the Spotless Mind (2004)': 5.0,  
'Everything You Always Wanted to Know About Sex \* But Were Afraid to Ask (1972)': 3.5,  
'Factory Girl (2006)': 4.5,  
'Fargo (1996)': 4.0,  
'First Blood (Rambo: First Blood) (1982)': 1.0,  
'First Wives Club, The (1996)': 2.0,  
'Flight of the Red Balloon (Voyage du ballon rouge, Le) (2007)': 1.0,  
'Forrest Gump (1994)': 4.0,  
'Full Monty, The (1997)': 4.0,  
'Godfather, The (1972)': 4.0,  
'Godfather: Part II, The (1974)': 3.5,  
'Godfather: Part III, The (1990)': 2.5,  
'Good bye, Lenin! (2003)': 5.0,  
'Good, the Bad and the Ugly, The (Buono, il brutto, il cattivo, Il) (1966)': 5.0,  
'Graduate, The (1967)': 4.0,  
'Hangover, The (2009)': 4.5,  
'Happy-Go-Lucky (2008)': 4.0,  
'Harry Potter and the Goblet of Fire (2005)': 3.0,  
'High Noon (1952)': 4.0,  
'Hoax, The (2007)': 3.5,  
'Hotel Rwanda (2004)': 4.0,  
'I Could Never Be Your Woman (2007)': 2.5,  
"I've Loved You So Long (Il y a longtemps que je t'aime) (2008)": 4.5,  
'Inconvenient Truth, An (2006)': 3.5,  
'Julie & Julia (2009)': 3.0,  
'Jungle Fever (1991)': 4.0,  
'Jurassic Park (1993)': 1.5,  
'Keeping Mum (2005)': 4.5,  
'Kramer vs. Kramer (1979)': 2.5,  
'Last Chance Harvey (2008)': 2.5,  
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'Lives of Others, The (Das leben der Anderen) (2006)': 5.0,  
'Lord of the Rings: The Fellowship of the Ring, The (2001)': 3.0,  
'Lost in Translation (2003)': 3.5,  
'Love Actually (2003)': 3.5,  
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'Maria Full of Grace (Maria, Llena eres de gracia) (2004)': 4.0,  
'Matrix, The (1999)': 3.0,  
'Men in Black (a.k.a. MIB) (1997)': 2.5,  
'Midnight Cowboy (1969)': 4.0,  
'Misfits, The (1961)': 3.5,  
  
'Money Pit, The (1986)': 2.0,  
'Music and Lyrics (2007)': 4.0,  
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'Nine Months (1995)': 4.0,  
'No Country for Old Men (2007)': 4.0,  
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'Officer and a Gentleman, An (1982)': 3.0,  
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'Paradise Now (2005)': 5.0,  
'Paris, Texas (1984)': 4.5,  
'Player, The (1992)': 4.0,  
'Portrait of a Lady, The (1996)': 3.0,  
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'Rambo III (1988)': 1.0,  
'Rambo: First Blood Part II (1985)': 1.0,  
"Schindler's List (1993)": 4.0,  
'Sea Inside, The (Mar adentro) (2004)': 5.0,  
'Secret in Their Eyes, The (El secreto de sus ojos) (2009)': 4.5,  
'Sex and Lucia (Lucía y el sexo) (2001)': 4.5,  
'Shawshank Redemption, The (1994)': 4.5,  
'Show Me Love ( Fucking Åmål) (1998)': 4.0,  
'Shrek (2001)': 3.0,  
'Shrek 2 (2004)': 2.5,  
'Shrek Forever After (a.k.a. Shrek: The Final Chapter) (2010)': 3.0,  
'Silence of the Lambs, The (1991)': 3.5,  
'Sixth Sense, The (1999)': 3.5,  
'Sophie Scholl: The Final Days (Sophie Scholl - Die letzten Tage) (2005)':  
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'Spider (2002)': 5.0,  
'Star Trek: The Motion Picture (1979)': 2.0,  
'Star Wars: Episode IV - A New Hope (1977)': 1.0,  
'Strada, La (1954)': 5.0,  
'Stranger than Fiction (2006)': 4.0,  
'Superman II (1980)': 2.5,  
'Talk to Her (Hable con Ella) (2002)': 5.0,  
'Terms of Endearment (1983)': 2.0,  
'To Be and to Have (Être et avoir) (2002)': 1.0,  
'Towelhead (a.k.a. Nothing is Private) (2007)': 5.0,  
'Tsotsi (2005)': 4.0,  
'Valentin (Valentín) (2002)': 4.0,  
'Vicky Cristina Barcelona (2008)': 3.0,  
'Visitor, The (2007)': 5.0,  
'Volver (2006)': 4.0,  
'Wings of Desire (Himmel über Berlin, Der) (1987)': 4.5,  
'World According to Garp, The (1982)': 4.0,  
'Wyatt Earp (1994)': 3.0,  
'You, Me and Dupree (2006)': 2.5},  
'Jennifer': {'Birdcage, The (1996)': 5.0,  
'Down Periscope (1996)': 3.0,  
'Dragonheart (1996)': 4.0,  
'Executive Decision (1996)': 4.0,  
'Grumpier Old Men (1995)': 3.0,  
'Independence Day (a.k.a. ID4) (1996)': 3.0,  
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'Mighty Aphrodite (1995) ': 5.0,  
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'Multiplicity (1996)': 3.0,  
'Nutty Professor, The (1996)': 4.0,  
'Phenomenon (1996)': 3.0,  
'Primal Fear (1996)': 4.0,  
'Rock, The (1996)': 3.0,  
'Sabrina (1995)': 5.0,  
'Sense and Sensibility (1995)': 5.0,  
'Spy Hard (1996)': 3.0,  
'Star Wars: Episode IV – A New Hope (1977)': 4.0,  
  
'Striptease (1996)': 3.0,  
'Toy Story (1995)': 5.0,  
'Truth About Cats & Dogs, The (1996)': 4.0,  
'Twister (1996)': 2.0,  
'Up Close and Personal (1996)': 4.0,  
'Willy Wonka & the Chocolate Factory (1971)': 1.0},  
'Jessica': {'1984 (Nineteen Eighty-Four) (1984)': 5.0,  
'2001: A Space Odyssey (1968)': 5.0,  
'2010: The Year We Make Contact (1984)': 4.0,  
'8MM (1999)': 4.0,  
'Abyss, The (1989)': 3.0,  
'Adventures of Buckaroo Banzai Across the 8th Dimension, The (1984)': 4.0,  
'Airplane! (1980)': 5.0,  
'Alien (1979)': 5.0,  
'Aliens (1986)': 4.0,  
'Amadeus (1984)': 3.0,  
'American History X (1998)': 4.0,  
'American Werewolf in London, An (1981)': 5.0,  
'Annie Hall (1977)': 5.0,  
'Apocalypse Now (1979)': 5.0,  
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'Armageddon (1998)': 4.0,  
'Army of Darkness (1993)': 4.0,  
'Back to the Future (1985)': 5.0,  
'Back to the Future Part II (1989)': 3.0,  
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'Bambi (1942)': 4.0,  
'Battle for the Planet of the Apes (1973)': 3.0,  
'Beneath the Planet of the Apes (1970)': 4.0,  
'Better Off Dead... (1985)': 5.0,  
'Big (1988)': 4.0,  
'Big Daddy (1999)': 4.0,  
'Birds, The (1963)': 4.0,  
'Black Hole, The (1979)': 4.0,  
'Blade Runner (1982)': 5.0,  
'Blair Witch Project, The (1999)': 5.0,  
'Blue Velvet (1986)': 5.0,  
'Blues Brothers, The (1980)': 5.0,  
'Bonnie and Clyde (1967)': 5.0,  
'Brazil (1985)': 4.0,  
'Butch Cassidy and the Sundance Kid (1969)': 5.0,  
'Carrie (1976)': 4.0,  
'Clerks (1994)': 5.0,  
'Clockwork Orange, A (1971)': 5.0,  
'Cocoon (1985)': 4.0,  
'Congo (1995)': 3.0,  
'Conquest of the Planet of the Apes (1972)': 4.0,  
'Contact (1997)': 4.0,  
'Cool Hand Luke (1967)': 5.0,  
'Cruel Intentions (1999)': 1.0,  
'Crying Game, The (1992)': 4.0,  
'Dark Crystal, The (1982)': 4.0,  
'Dave (1993)': 3.0,  
'Dead Ringers (1988)': 4.0

'Dead Ringers (1988)': 4.0,  
'Dead Zone, The (1983)': 5.0,  
'Deep Blue Sea (1999)': 4.0,  
'Deep Impact (1998)': 4.0,  
'Deep Rising (1998)': 4.0,  
'Demolition Man (1993)': 3.0,  
'Dr. No (1962)': 4.0,  
'E.T. the Extra-Terrestrial (1982)': 5.0,  
'EDtv (1999)': 3.0,  
'Escape from New York (1981)': 5.0,  
'Escape from the Planet of the Apes (1971)': 3.0,  
'Evil Dead II (Dead by Dawn) (1987)': 5.0,

'Excalibur (1981)': 5.0,  
'Faculty, The (1998)': 4.0,  
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'Fish Called Wanda, A (1988)': 4.0,  
'Fletch (1985)': 4.0,  
'Flight of the Navigator (1986)': 5.0,  
'Fly, The (1986)': 4.0,  
'From Russia with Love (1963)': 4.0,  
'Fugitive, The (1993)': 5.0,  
'Full Metal Jacket (1987)': 5.0,  
'Gattaca (1997)': 4.0,  
'Glory (1989)': 5.0,  
'Godfather, The (1972)': 5.0,  
'Godfather: Part II, The (1974)': 5.0,  
'Gods Must Be Crazy, The (1980)': 5.0,  
'Godzilla (1998)': 4.0,  
'Goldfinger (1964)': 4.0,  
'Goodfellas (1990)': 5.0,  
'Graduate, The (1967)': 5.0,  
'Grifters, The (1990)': 3.0,  
'Heavy Metal (1981)': 4.0,  
'Honey, I Blew Up the Kid (1992)': 3.0,  
'Honey, I Shrunk the Kids (1989)': 4.0,  
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'Judge Dredd (1995)': 2.0,  
'Jurassic Park (1993)': 5.0,  
'Kids (1995)': 5.0,  
'King Kong (1933)': 4.0,  
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"Logan's Run (1976)": 4.0,  
'Lost World: Jurassic Park, The (1997)': 4.0,  
'Lost in Space (1998)': 5.0,  
'M\*A\*S\*H (a.k.a. MASH) (1970)': 5.0,  
'Malice (1993)': 5.0,  
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'Mimic (1997)': 4.0,  
'Monkey Shines (1988)': 3.0,  
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'My Science Project (1985)': 4.0,  
'Natural, The (1984)': 4.0,  
'Night of the Comet (1984)': 4.0,  
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'Nutty Professor, The (1996)': 4.0,  
"One Flew Over the Cuckoo's Nest (1975)": 4.0,  
'Out-of-Towners, The (1999)': 3.0,  
'Patton (1970)': 4.0,  
'Phantasm (1979)': 3.0,  
'Pi (1998)': 4.0,  
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'Puppet Masters, The (1994)': 2.0,  
'Radio Days (1987)': 4.0,  
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'Rear Window (1954)': 5.0,  
'Rebel Without a Cause (1955)': 4.0,  
'Reservoir Dogs (1992)': 5.0,  
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'Return to Oz (1985)': 5.0,  
'RoboCop (1987)': 5.0,  
'RoboCop 2 (1990)': 2.0,  
'Rocky Horror Picture Show, The (1975)': 3.0,  
'Saving Private Ryan (1998)': 4.0,  
'Shawshank Redemption, The (1994)': 5.0,  
'Shining, The (1980)': 5.0,  
'Silence of the Lambs, The (1991)': 5.0,  
'Simon Birch (1998)': 4.0,  
'Simple Plan, A (1998)': 5.0,  
'Sleeper (1973)': 4.0,  
'Sneakers (1992)': 3.0,  
'Soylent Green (1973)': 5.0,  
'Spaceballs (1987)': 5.0,  
'Species (1995)': 3.0,  
'Sphere (1998)': 3.0,  
'Stand by Me (1986)': 5.0,  
'Star Trek II: The Wrath of Khan (1982)': 5.0,  
'Star Trek III: The Search for Spock (1984)': 5.0,  
'Star Trek IV: The Voyage Home (1986)': 4.0,  
'Star Trek V: The Final Frontier (1989)': 4.0,  
'Star Trek VI: The Undiscovered Country (1991)': 3.0,  
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'Cool Runnings (1993)': 3.0,  
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'Crocodile Dundee (1986)': 3.0,  
'Dan in Real Life (2007)': 3.0,  
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'Dead Poets Society (1989)': 4.5,  
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'Elf (2003)': 3.5,  
'Emma (1996)': 4.0,  
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'Englishman Who Went Up a Hill But Came Down a Mountain, The (1995)': 3.5,  
'Ever After: A Cinderella Story (1998)': 4.5,  
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'Fantastic Four: Rise of the Silver Surfer (2007)': 2.5,  
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'Freshman, The (1925)': 4.0,  
'Fried Green Tomatoes (1991)': 4.0,  
'Fugitive, The (1993)': 3.5,  
'Galaxy Quest (1999)': 4.5,  
'Gallipoli (1981)': 3.5,  
'Ghost (1990)': 2.5,  
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'Gods Must Be Crazy, The (1980)': 4.5,  
  
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'Greatest Game Ever Played, The (2005)': 4.0,  
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'His Girl Friday (1940)': 3.5,  
'Holes (2003)': 5.0,  
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'Honey, I Shrunk the Kids (1989)': 2.5,  
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'Hunchback of Notre Dame, The (1996)': 3.0,  
'Hunt for Red October, The (1990)': 4.5,  
'I Now Pronounce You Chuck and Larry (2007)': 1.0,  
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'Ice Age (2002)': 4.0,  
'Ice Age 2: The Meltdown (2006)': 4.0,  
'Importance of Being Earnest, The (2002)': 4.5,  
'Incredibles, The (2004)': 4.0,  
'Independence Day (a.k.a. ID4) (1996)': 3.0,  
'Indiana Jones and the Last Crusade (1989)': 4.0,  
'Indiana Jones and the Temple of Doom (1984)': 3.5,  
'Into the Woods (1991)': 4.0,  
'Iron Giant, The (1999)': 4.0,  
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'Jewel of the Nile, The (1985)': 3.0,  
'Joe Versus the Volcano (1990)': 4.0,  
'Johnny English (2003)': 4.0,  
'Jonah: A VeggieTales Movie (2002)': 4.5,  
'Jungle Book, The (1967)': 4.0,  
'Jurassic Park (1993)': 4.0,  
'Just Like Heaven (2005)': 4.5,  
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'King and I, The (1999)': 1.0,  
'Kiss Me Kate (1953)': 3.5,  
'Ladykillers, The (1955)': 3.0,  
'Lagaan: Once Upon a Time in India (2001)': 4.5,  
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'Last Starfighter, The (1984)': 3.5,  
'Lawrence of Arabia (1962)': 4.5,  
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'Life Is Beautiful (La Vita è bella) (1997)': 4.5,  
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'Little Mermaid, The (1989)': 3.0,  
'Little Women (1933)': 4.5,  
'Love Bug, The (1969)': 3.5,  
'Man Who Knew Too Little, The (1997)': 5.0,  
'Man from Snowy River, The (1982)': 4.0

'Man from Snowy River, The' (1982) : 4.0,  
'Man with One Red Shoe, The' (1985)' : 3.0,  
'Mary Poppins' (1964)' : 3.0,  
'Matrix, The' (1999)' : 3.0,  
'Maverick' (1994)' : 4.5,  
'Meet the Robinsons' (2007)' : 5.0,  
'Men in Black (a.k.a. MIB)' (1997)' : 3.5,  
'Metropolis' (1927)' : 3.5,  
'Miracle' (2004)' : 4.5,  
'Miracle on 34th Street' (1994)' : 4.0,  
'Miss Potter' (2006)' : 4.5,  
'Monsters, Inc.' (2001)' : 4.5,

'Monty Python and the Holy Grail' (1975)' : 4.0,  
"Mr. Holland's Opus" (1995)": 4.0,  
'Mr. Smith Goes to Washington' (1939)' : 4.5,  
'Mrs. Doubtfire' (1993)' : 2.0,  
'Much Ado About Nothing' (1993)' : 4.5,  
'Muppet Christmas Carol, The' (1992)' : 4.0,  
'Muppet Movie, The' (1979)' : 4.0,  
'Music Man, The' (1962)' : 4.0,  
'My Big Fat Greek Wedding' (2002)' : 4.5,  
'My Name Is Nobody (Il Mio nome è Nessuno)' (1973)' : 4.0,  
'Napoleon Dynamite' (2004)' : 3.5,  
'Never Cry Wolf' (1983)' : 3.0,  
'NeverEnding Story, The' (1984)' : 3.5,  
'Nightmare Before Christmas, The' (1993)' : 2.0,  
'O Brother, Where Art Thou?' (2000)' : 3.5,  
"Ocean's Twelve" (2004)": 3.5,  
'October Sky' (1999)' : 4.5,  
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'Peter Pan' (1953)' : 3.5,  
'Phenomenon' (1996)' : 3.0,  
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'Pink Panther, The' (1963)' : 3.5,  
'Polar Express, The' (2004)' : 4.5,  
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'Raging Bull' (1980)' : 1.0,  
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'Ratatouille' (2007)': 4.5,  
'Remember the Titans' (2000)' : 4.0,  
'Return to Me' (2000)' : 4.5,  
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'Rocketeer, The' (1991)' : 4.0,  
'Rocky' (1976)' : 2.5,  
'Romancing the Stone' (1984)' : 3.0,  
'Rookie, The' (2002)' : 4.0,  
'Rosencrantz and Guildenstern Are Dead' (1990)' : 5.0,  
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'Sabrina' (1995)' : 3.5,  
'School of Rock' (2003)' : 1.0,  
'Searching for Bobby Fischer' (1993)' : 5.0,  
'Secondhand Lions' (2003)' : 5.0,  
'Secret of Roan Inish, The' (1994)' : 4.0,  
'Sense and Sensibility' (1995)' : 5.0,  
'Shadowlands' (1993)' : 4.0,  
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'Splash (1984)': 3.0,  
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'Tarzan (1999)': 4.5,  
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'Top Gun (1986)': 3.0,  
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'Tron (1982)': 3.5,  
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'Two Weeks Notice (2002)': 4.5,  
'WALL·E (2008)': 5.0,  
'Wait Until Dark (1967)': 3.0,  
'Walk to Remember, A (2002)': 4.0,  
'Wallace & Gromit in The Curse of the Were-Rabbit (2005)': 3.5,  
'Wallace & Gromit: A Close Shave (1995)': 4.0,  
'Wallace & Gromit: The Wrong Trousers (1993)': 5.0,  
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'What About Bob? (1991)': 4.0,  
"What's Up, Doc? (1972)": 4.0,  
'While You Were Sleeping (1995)': 4.5,  
'White Christmas (1954)': 4.0,  
'Who Framed Roger Rabbit? (1988)': 3.0,  
"Widows' Peak (1994)": 4.5,  
'Willow (1988)': 3.5,  
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'Women, The (1939)': 3.5,  
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'2010: The Year We Make Contact (1984)': 3.0,  
'A.I. Artificial Intelligence (2001)': 2.0,  
'Accidental Tourist, The (1988)': 2.0,  
'Adventures of Rocky and Bullwinkle, The (2000)': 2.0,  
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'Ali (2001)': 3.0,  
'Alien Nation (1988)': 3.0,  
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'American Beauty (1999)': 3.0,  
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'American Graffiti (1973)': 4.0,  
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'Around the World in 80 Days (1956)': 3.0,  
'Arthur (1981)': 4.0,  
'Austin Powers: International Man of Mystery (1997)': 3.0,  
'Austin Powers: The Spy Who Shagged Me (1999)': 3.0,  
'Autumn in New York (2000)': 2.0,  
'Babe: Pig in the City (1998)': 3.0,  
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'Best in Show (2000)': 4.0,  
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'Big Daddy (1999)': 3.0,  
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'Bounce (2000)': 4.0,  
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'Broadcast News (1987)': 3.0,  
'Bullets Over Broadway (1994)': 4.0,  
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'Conspiracy Theory (1997)': 3.0,  
'Cool Runnings (1993)': 3.0,  
'Corrina, Corrina (1994)': 3.0,  
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'Dave (1993)': 4.0,  
'Day the Earth Stood Still, The (1951)': 4.0,  
'Deep Blue Sea (1999)': 3.0,  
'Deep End of the Ocean, The (1999)': 3.0,  
'Dirty Work (1998)': 2.0,  
'Doctor Zhivago (1965)': 3.0,  
'Donnie Brasco (1997)': 3.0,  
'Double Jeopardy (1999)': 4.0,  
'Dr. Dolittle (1998)': 4.0,  
'Dr. Dolittle 2 (2001)': 3.0,  
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'Duck Soup (1933)': 5.0,  
'E.T. the Extra-Terrestrial (1982)': 4.0,  
'Earthquake (1974)': 3.0,  
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'Erin Brockovich (2000)': 4.0,  
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'Finding Forrester (2000)': 4.0,  
'First Blood (Rambo: First Blood) (1982)': 4.0,  
'Fisher King, The (1991)': 3.0,  
'Flashdance (1983)': 5.0,  
'Flintstones, The (1994)': 3.0,  
'For Love of the Game (1999)': 3.0,  
'Forbidden Planet (1956)': 3.0,  
'Forces of Nature (1999)': 3.0,  
'Forrest Gump (1994)': 4.0,  
  
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'Gods and Monsters (1998)': 3.0,  
'Godzilla (1998)': 3.0,  
'Godzilla (Gojira) (1954)': 3.0,  
'Godzilla 2000 (Gojira ni-sen mireniamu) (1999)': 3.0,  
'Gone in 60 Seconds (2000)': 2.0,  
'Gone with the Wind (1939)': 4.0,  
'Good Morning, Vietnam (1987)': 4.0,  
'Goodbye Girl, The (1977)': 3.0,  
'Graduate, The (1967)': 4.0,  
'Grand Canyon (1991)': 3.0,  
'Great Ziegfeld, The (1936)': 3.0,  
'Groundhog Day (1993)': 4.0,  
'Grumpier Old Men (1995)': 3.0,  
"Harry Potter and the Sorcerer's Stone (a.k.a. Harry Potter and the Philosopher's Stone) (2001)": 3.0,  
'Her Alibi (1989)': 2.0,  
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'Small Soldiers (1998)': 3.5,

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'Drunken Master (Jui kuen) (1978)': 5.0,  
'Empire Records (1995)': 3.0,  
'Fast Times at Ridgemont High (1982)': 4.0,  
'Fatal Attraction (1987)': 3.0,  
'Father of the Bride (1950)': 4.0,  
"Ferris Bueller's Day Off (1986)": 3.0,  
'Fletch Lives (1989)': 3.0,  
'Forrest Gump (1994)': 4.0,  
'Fright Night (1985)': 3.0,  
'Ghost (1990)': 5.0,  
'Ghostbusters (a.k.a. Ghost Busters) (1984)': 5.0,  
'Grease (1978)': 5.0,  
'Grosse Pointe Blank (1997)': 5.0,  
'Groundhog Day (1993)': 5.0,  
'Half Baked (1998)': 5.0,  
'Heat (1995)': 3.0,  
'Heathers (1989)': 2.0,  
'House Party (1990)': 3.0,  
"I'm Gonna Git You Sucka (1988)": 4.0,  
'Keeping the Faith (2000)': 1.0,  
'Kentucky Fried Movie, The (1977)': 5.0,  
'Little Shop of Horrors, The (1960)': 1.0,  
'Lord of the Flies (1963)': 4.0

```
'Lord of the Flies (1963)': 4.0,
'Men in Black (a.k.a. MIB) (1997)': 4.0,
'Monty Python and the Holy Grail (1975)': 3.0,
'Mystery, Alaska (1999)': 3.0,
'Naked Gun: From the Files of Police Squad!, The (1988)': 5.0,
"Pee-wee's Big Adventure (1985)": 3.0,
'Princess Bride, The (1987)': 5.0,
'Raising Arizona (1987)': 2.0,
'Roman Holiday (1953)': 5.0,
'Romancing the Stone (1984)': 4.0,
'Sabrina (1954)': 3.0,
'Say Anything... (1989)': 4.0,

'Shakespeare in Love (1998)': 3.0,
'Sixteen Candles (1984)': 4.0,
'Sleepless in Seattle (1993)': 3.0,
'Splash (1984)': 3.0,
'Swingers (1996)': 3.0,
"There's Something About Mary (1998)": 4.0,
'Threesome (1994)': 5.0,
'Toy Story (1995)': 3.0,
'When Harry Met Sally... (1989)': 3.0,
'Working Girl (1988)': 3.0},
'Sarah'.'s'Age Venture. When Nature Calls (1995)'.' 2 5
```

In [9]:

```
data = all_dict
#Function for calculating similarities
def euclidean_similarity(person1, person2):

    common_ranked_items = [itm for itm in data[person1] if itm in data[person2]]
    rankings = [(data[person1][itm], data[person2][itm]) for itm in common_ranked_items]
    distance = [pow(rank[0] - rank[1], 2) for rank in rankings]

    return 1 / (1 + sum(distance))
```

In [10]:

```
# This is a recommend function, which we call to recommend movies to users
def recommend(person, bound, similarity=euclidean_similarity):
    scores = [(similarity(person, other), other) for other in data if other != person]

    scores.sort()
    scores.reverse()
    scores = scores[0:bound]

    print (scores)
    #print (scores.) #(0.5, 'Jennifer'), (0.4, 'Robert'), (0.3076923076923077, 'Brandon'),
... 0.5 is more similar

    recomms = {}

    for sim, other in scores:
        ranked = data[other] #Get the movies and respective rating from these users in the
        same cluster

        for item in ranked: #for all movie similar users have watched
            if item not in data[person]: #get movies this user has not already watched
                weight = sim * ranked[item] #multiply the similarity by the

                if item in recomms:
                    s, weights = recomms[item]
                    recomms[item] = (s + sim, weights + [weight])
                else:
                    recomms[item] = (sim, [weight])

    #print(recomms)
    for r in recomms:
        sim, item = recomms[r]
        #print(item)
        #print(sum(item))
        recomms[r] = sum(item) / sim #predicted ranking for each movie = actual ranking/si
milarity

    #return recomms
    return sorted(recomms.items(), key=lambda x: x[1], reverse=True)[0:bound]
```

In [ ]:

In [11]:

```
# Finally, Let's recommend 5 movies to Michael
recommend("Michael", 5, euclidean_similarity)
```

```
[(0.5, 'Jennifer'), (0.4, 'Robert'), (0.3076923076923077, 'Brandon'), (0.285
7142857142857, 'David'), (0.2857142857142857, 'Andrew')]
```

Out[11]:

```
[('Mighty Aphrodite (1995)', 5.0),
 ("Mr. Holland's Opus (1995)", 5.0),
 ('Fatal Attraction (1987)', 5.0),
 ('Patriot Games (1992)', 5.0),
 ('Gladiator (2000)', 5.0)]
```

In [21]:

```
data["Michael"]
```

Out[21]:

```
{'2001: A Space Odyssey (1968)': 3.5,
 '28 Days Later (2002)': 3.5,
 '7th Voyage of Sinbad, The (1958)': 4.0,
 'Adventures of Baron Munchausen, The (1988)': 4.0,
 'Alien (1979)': 4.0,
 'Aliens (1986)': 4.0,
 'American Werewolf in London, An (1981)': 4.0,
 'Apocalypse Now (1979)': 3.5,
 'Army of Darkness (1993)': 4.0,
 'Austin Powers: The Spy Who Shagged Me (1999)': 3.5,
 'Beastmaster, The (1982)': 3.0,
 'Beetlejuice (1988)': 4.0,
 "Bill & Ted's Bogus Journey (1991)": 3.5,
 "Bill & Ted's Excellent Adventure (1989)": 4.0,
 'Birds, The (1963)': 4.0,
 'Blade Runner (1982)': 4.0,
 'Borrowers, The (1997)': 3.5,
 'Brotherhood of the Wolf (Pacte des loups, Le) (2001)': 4.0,
 'Bubba Ho-tep (2002)': 3.5,
 'Butch Cassidy and the Sundance Kid (1969)': 3.0,
 'Chitty Chitty Bang Bang (1968)': 3.5,
 'Christmas Story, A (1983)': 3.5,
 'City of Lost Children, The (Cité des enfants perdus, La) (1995)': 3.5,
 'Clash of the Titans (1981)': 4.0,
 'Clerks (1994)': 4.0,
 'Company of Wolves, The (1984)': 4.0,
 'Conan the Destroyer (1984)': 3.0,
 'Constantine (2005)': 4.0,
 'Contact (1997)': 3.5,
 'Crouching Tiger, Hidden Dragon (Wo hu cang long) (2000)': 4.0,
 'Dark Crystal, The (1982)': 4.0,
 'Dawn of the Dead (1978)': 3.5,
 'Dead Poets Society (1989)': 3.5,
 'Dead Zone, The (1983)': 4.0,
 'Die Hard (1988)': 4.0,
 'Die Hard 2 (1990)': 3.0,
 'Dirty Dozen, The (1967)': 4.0,
 'Donnie Darko (2001)': 3.5,
 'Dracula (1931)': 3.5}
```

'Dracula (1931)': 3.5,  
'Dragonheart (1996)': 3.0,  
'Dragonslayer (1981)': 4.0,  
'Dune (1984)': 4.0,  
  
'Dungeons & Dragons (2000)': 3.5,  
'E.T. the Extra-Terrestrial (1982)': 4.0,  
'Edward Scissorhands (1990)': 4.0,  
'Enter the Dragon (1973)': 3.0,  
'Escape to Witch Mountain (1975)': 3.5,  
'Evil Dead II (Dead by Dawn) (1987)': 3.5,  
'Evil Dead, The (1981)': 3.5,  
'Excalibur (1981)': 4.0,  
'Exorcist, The (1973)': 3.5,  
'Femme Nikita, La (Nikita) (1990)': 4.0,  
"Ferris Bueller's Day Off (1986)": 3.5,  
'Fight Club (1999)': 4.0,  
'Final Fantasy: The Spirits Within (2001)': 3.5,  
'Fish Called Wanda, A (1988)': 4.0,  
'Flash Gordon (1980)': 3.5,  
'Frankenstein (1931)': 3.5,  
'Freaks (1932)': 5.0,  
'Full Metal Jacket (1987)': 3.5,  
'Ghostbusters (a.k.a. Ghost Busters) (1984)': 3.5,  
'Godsend (2004)': 3.5,  
'Goldfinger (1964)': 3.5,  
'Good, the Bad and the Ugly, The (Buono, il brutto, il cattivo, Il) (1966)'  
: 3.0,  
'Great Escape, The (1963)': 3.5,  
'Hard-Boiled (Lat sau san taam) (1992)': 3.5,  
'Harry Potter and the Chamber of Secrets (2002)': 4.0,  
'Harry Potter and the Prisoner of Azkaban (2004)': 4.0,  
"Harry Potter and the Sorcerer's Stone (a.k.a. Harry Potter and the Philosopher's Stone) (2001)": 4.0,  
'Heavy Metal 2000 (2000)': 3.5,  
'Highlander: Endgame (Highlander IV) (2000)': 4.0,  
'Hook (1991)': 4.0,  
'Incredibles, The (2004)': 4.0,  
'Indiana Jones and the Last Crusade (1989)': 3.5,  
'Interview with the Vampire: The Vampire Chronicles (1994)': 4.0,  
'Invasion of the Body Snatchers (1956)': 3.5,  
'Invasion of the Body Snatchers (1978)': 3.5,  
'Invisible Man, The (1933)': 3.0,  
'Iron Giant, The (1999)': 3.0,  
'Jabberwocky (1977)': 4.0,  
"Jacob's Ladder (1990)": 3.5,  
'Jason and the Argonauts (1963)': 4.0,  
'Jaws (1975)': 4.0,  
'Jumanji (1995)': 3.5,  
'Kill Bill: Vol. 2 (2004)': 4.0,  
'Labyrinth (1986)': 4.0,  
'Ladyhawke (1985)': 4.0,  
'Last Unicorn, The (1982)': 4.0,  
'Legend (1985)': 4.0,  
'Little Big Man (1970)': 3.5,  
'Lock, Stock & Two Smoking Barrels (1998)': 4.0,  
'Lord of the Rings: The Fellowship of the Ring, The (2001)': 5.0,  
'Lord of the Rings: The Return of the King, The (2003)': 5.0,  
'Lord of the Rings: The Two Towers, The (2002)': 5.0,  
'Lost Boys, The (1987)': 4.0,  
'Léon: The Professional (a.k.a. The Professional) (Léon) (1994)': 4.0,  
'Mask, The (1994)': 3.5,  
'Masters of the Universe (1987)': 3.0,  
'Memento (2000)': 3.5,  
'Misery (1990)': 4.0,  
'Monty Python and the Holy Grail (1975)': 3.5,  
"Monty Python's Life of Brian (1979)": 3.5,  
"Monty Python's The Meaning of Life (1983)": 3.5

'Monty Python's The Meaning of Life (1983)': 3.5,  
'Navigator: A Mediaeval Odyssey, The (1988)': 4.0,  
'Nosferatu (Nosferatu, eine Symphonie des Grauens) (1922)': 3.5,  
'O Brother, Where Art Thou? (2000)': 4.0,  
  
'Omen, The (1976)': 3.5,  
"One Flew Over the Cuckoo's Nest (1975)": 3.5,  
'One Million Years B.C. (1966)': 4.0,  
'Others, The (2001)': 3.5,  
'Peter Pan (2003)': 3.5,  
'Picture of Dorian Gray, The (1945)': 3.5,  
'Pirates of the Caribbean: The Curse of the Black Pearl (2003)': 4.0,  
'Platoon (1986)': 4.0,  
'Poltergeist (1982)': 3.5,  
'Princess Mononoke (Mononoke-hime) (1997)': 3.5,  
'Psycho (1960)': 4.0,  
'Pulp Fiction (1994)': 4.0,  
'Raiders of the Lost Ark (Indiana Jones and the Raiders of the Lost Ark) (1981)': 4.5,  
'Ran (1985)': 3.5,  
'Reservoir Dogs (1992)': 3.5,  
'Ring, The (2002)': 3.5,  
'Ringu (Ring) (1998)': 3.5,  
'Rob Roy (1995)': 4.0,  
'Rosencrantz and Guildenstern Are Dead (1990)': 3.0,  
'Rumble in the Bronx (Hont faan kui) (1995)': 3.5,  
'Run Lola Run (Lola rennt) (1998)': 3.5,  
'Scary Movie 3 (2003)': 3.0,  
'Seven (a.k.a. Se7en) (1995)': 3.5,  
'Shawshank Redemption, The (1994)': 4.0,  
'Shining, The (1980)': 4.0,  
'Shrek (2001)': 4.0,  
'Silence of the Lambs, The (1991)': 3.5,  
'Sixth Sense, The (1999)': 4.0,  
'Slaughterhouse-Five (1972)': 3.5,  
'Sleepy Hollow (1999)': 4.0,  
'Sling Blade (1996)': 4.0,  
'Small Soldiers (1998)': 3.5,  
'Snatch (2000)': 4.0,  
'Spider-Man 2 (2004)': 4.5,  
'Splash (1984)': 4.0,  
'Stand by Me (1986)': 4.0,  
'Star Kid (1997)': 3.5,  
'Star Trek II: The Wrath of Khan (1982)': 4.0,  
'Star Wars: Episode I - The Phantom Menace (1999)': 4.0,  
'Star Wars: Episode IV - A New Hope (1977)': 4.0,  
'Star Wars: Episode V - The Empire Strikes Back (1980)': 4.5,  
'Sword and the Sorcerer, The (1982)': 3.5,  
'Teenage Mutant Ninja Turtles (1990)': 3.5,  
'Terminator 2: Judgment Day (1991)': 3.5,  
'Terminator, The (1984)': 4.0,  
'Thing, The (1982)': 4.0,  
'Time Bandits (1981)': 4.0,  
'Time Machine, The (2002)': 4.0,  
'Toys (1992)': 3.5,  
'Twelve Monkeys (a.k.a. 12 Monkeys) (1995)': 3.5,  
'Underworld (2003)': 4.0,  
'Unforgiven (1992)': 4.0,  
'Untouchables, The (1987)': 3.5,  
'Usual Suspects, The (1995)': 3.5,  
'Vampire Hunter D: Bloodlust (Banpaia hantâ D) (2000)': 3.5,  
'Van Helsing (2004)': 4.0,  
'Videodrome (1983)': 4.0,  
'Warriors of Virtue (1997)': 3.0,  
'Watership Down (1978)': 4.0,  
"What's Eating Gilbert Grape (1993)": 3.5,  
'Wicker Man, The (1973)': 4.0,  
'Wildor Napalm (1993)': 3.5

'Wilder Napalm (1993)': 3.5,  
'Willow (1988)': 4.0,  
'Witches of Eastwick, The (1987)': 4.0,  
'Witches, The (1990)': 3.5,  
  
'Wizard of Oz, The (1939)': 3.5,  
'X2: X-Men United (2003)': 4.0,  
'Yoimbo (1961)': 3.0.

## Section 2: Content-Based Approach

The code for this section was adapted from: Source: [DataCamp](#) (<https://www.datacamp.com/community/tutorials/recommender-systems-python>). You can also modify it for other datasets as well.

# Recap



# Question:

- Can we use the previous dataset (see below) for content based filtering or do we need some other attributes?

In [10]:

```
ratings.head()
```

Out[10]:

	userId	movieId	rating	timestamp	movie_title	user_name
0	1	2	3.5	1112486027	Jumanji (1995)	Michael
1	1	29	3.5	1112484676	City of Lost Children, The (Cité des enfants p...)	Michael
2	1	32	3.5	1112484819	Twelve Monkeys (a.k.a. 12 Monkeys) (1995)	Michael
3	1	47	3.5	1112484727	Seven (a.k.a. Se7en) (1995)	Michael
4	1	50	3.5	1112484580	Usual Suspects, The (1995)	Michael

## Answer

- We'll need details about the movie because we want to recommend a similar movie
- Details like: star actors or the movie plot etc.

Here, we'll recommend movies that are similar to a particular movie. To achieve this we compute pairwise similarity scores for all movies based on their plot descriptions and recommend movies based on that similarity score.

## We'll be using a totally different dataset.

- This dataset is an iMDB movies dataset that contains 45,000 movies

In [11]:

```
metadata = pd.read_csv('movies_metadata.csv', low_memory=False)
metadata.head(5)
```

Out[11]:

	adult	belongs_to_collection	budget	genres	homepage	id	imdb_id	original_language	original_title
0	False	{'id': 10194, 'name': 'Toy Story Collection', ...}	30000000	[{'id': 16, 'name': 'Animation'}, {'id': 35, ...}]	http://toystory.disney.com/toy-story	862	tt0114709	en	Toy Story
1	False	NaN	65000000	[{'id': 12, 'name': 'Adventure'}, {'id': 14, ...}]	NaN	8844	tt0113497	en	Jumanji
2	False	{'id': 119050, 'name': 'Grumpy Old Men Collect...', ...}	0	[{'id': 10749, 'name': 'Romance'}, {'id': 35, ...}]	NaN	15602	tt0113228	en	Grumpier Old Men
3	False	NaN	16000000	[{'id': 35, 'name': 'Comedy'}, {'id': 18, ...}]	NaN	31357	tt0114885	en	Waiting to Exhale
4	False	{'id': 96871, 'name': 'Father of the Bride Col...', ...}	0	[{'id': 35, 'name': 'Comedy'}]	NaN	11862	tt0113041	en	Father of the Bride Part II

5 rows x 24 columns

In [12]:

```
metadata[ 'overview' ].head( )
```

Out[12]:

```
0    Led by Woody, Andy's toys live happily in his ...
1    When siblings Judy and Peter discover an encha...
2    A family wedding reignites the ancient feud be...
3    Cheated on, mistreated and stepped on, the wom...
4    Just when George Banks has recovered from his ...
Name: overview, dtype: object
```

## STEP ONE

- Compute the pairwise similarity between any two movie plots

- To do this we'll need to convert each plots into Term Frequency-Inverse Document Frequency (TF-IDF) vectors
- scikit-learn gives you a built-in `TfidfVectorizer` class that produces the TF-IDF matrix in a couple of lines.

In [13]:

```
#Import TfIdfVectorizer from scikit-learn
from sklearn.feature_extraction.text import TfidfVectorizer

#Define a TF-IDF Vectorizer Object. Remove all english stop words such as 'the', 'a'
tfidf = TfidfVectorizer(stop_words='english')

#Replace NaN with an empty string
metadata['overview'] = metadata['overview'].fillna('')

#Construct the required TF-IDF matrix by fitting and transforming the data
tfidf_matrix = tfidf.fit_transform(metadata['overview'])
```

In [14]:

```
#Import linear_kernel
from sklearn.metrics.pairwise import linear_kernel

# Compute the cosine similarity matrix using linear_kernel function
cosine_sim = linear_kernel(tfidf_matrix, tfidf_matrix)
```

## STEP TWO

- We'll write a function called `get_recommendations` that takes in the movie title and outputs a list of the 10 most similar movies
- Remember to give our movie title an index or ID as in:

In [15]:

```
#Construct a reverse map of indices and movie titles
indices = pd.Series(metadata.index, index=metadata['title']).drop_duplicates()
```

In [16]:

```
# Function that takes in movie title as input and outputs most similar movies
def get_recommendations(title, cosine_sim=cosine_sim):
    # Get the index of the movie that matches the title
    idx = indices[title]

    # Get the pairwise similarity scores of all movies with that movie
    sim_scores = list(enumerate(cosine_sim[idx]))

    # Sort the movies based on the similarity scores
    sim_scores = sorted(sim_scores, key=lambda x: x[1], reverse=True)

    # Get the scores of the 10 most similar movies
    sim_scores = sim_scores[1:11]

    # Get the movie indices
    movie_indices = [i[0] for i in sim_scores]

    # Return the top 10 most similar movies
    return metadata['title'].iloc[movie_indices]
```

In [17]:

```
# Get recommendations for people who have watched "The Dark Knight Rises"
get_recommendations('The Dark Knight Rises')
```

Out[17]:

```
12481          The Dark Knight
150            Batman Forever
1328           Batman Returns
15511          Batman: Under the Red Hood
585             Batman
21194  Batman Unmasked: The Psychology of the Dark Kn...
9230           Batman Beyond: Return of the Joker
18035           Batman: Year One
19792  Batman: The Dark Knight Returns, Part 1
3095            Batman: Mask of the Phantasm
Name: title, dtype: object
```

What do you notice?

## Recap

- A disadvantage of Content Based approach, which is?

In [18]:

```
# Get recommendations for people who have watched "The Godfather"
get_recommendations('The Godfather')
```

Out[18]:

```
1178      The Godfather: Part II
44030     The Godfather Trilogy: 1972–1990
1914      The Godfather: Part III
23126     Blood Ties
11297     Household Saints
34717     Start Liquidation
10001     None
```

## Bonus Tip!

**False positives are more undesirable than False Negatives.**

- i.e . its costlier for my recommender system to tell me customer A will like a product whereas, he ends up not liking it than not recommending a product he would like. False positive are detrimental to . So our model should reduce false positives...

**Take Home:**

- Research on ways to evaluate a recommenders system
- Research on ways to reduce False Positives

**Thanks for coming & Happy Recommending!**

## Resources

- Datasets to play with:
  - <https://grouplens.org/datasets/movielens/>  
(<https://grouplens.org/datasets/movielens/>)
  - <https://www.kaggle.com> (<https://www.kaggle.com>)
- Other useful books and tutorials
  - <https://www.manning.com/books/practical-recommender-systems>  
(<https://www.manning.com/books/practical-recommender-systems>)
  - <https://www.kaggle.com/plarmuseau/book-recommender-system>  
(<https://www.kaggle.com/plarmuseau/book-recommender-system>)

**Thanks for coming & Happy Recommending!**

