

# Movies Recommend System

```
In [25]: # Create input widget
movie_input = widgets.Text(placeholder = "Enter movie and release year", description = "Movie title :", disabled = False)
movies_num = widgets.IntSlider(value = 10, min = 10, max = 20, step = 1, description = "How many")

# Create output widget
movies_output = widgets.Output()

# Def funtion
def evaluate(movie, num):
    with movies_output:
        movies_output.clear_output()
        title = movie
        if len(title) >= 2:
            result = search(title)
            movie_id = result.iloc[0]["movieId"]
            movie_genres = result.iloc[0]["genres"]
            display(recommend_movies(movie_id, num))

show = interactive(evaluate, movie = movie_input, num = movies_num)
display(show, movies_output)
```

Movie title :

How many  10

## Example

### Toy Story 1995

Movie title :

How many  10

	title	genres
1	Toy Story 1995	Adventure Animation Children Comedy Fantasy
2	Toy Story 2 1999	Adventure Animation Children Comedy Fantasy
3	Bug's Life, A 1998	Adventure Animation Children Comedy
4	Toy Story 3 2010	Adventure Animation Children Comedy Fantasy IMAX
5	Monsters, Inc. 2001	Adventure Animation Children Comedy Fantasy
6	Finding Nemo 2003	Adventure Animation Children Comedy
7	Aladdin 1992	Adventure Animation Children Comedy Musical
8	Incredibles, The 2004	Action Adventure Animation Children Comedy
9	Beauty and the Beast 1991	Animation Children Fantasy Musical Romance IMAX
10	Lion King, The 1994	Adventure Animation Children Drama Musical IMAX

## Iron Man

Movie title :

How many  15

	title	genres
1	Iron Man 3 2013	Action SciFi Thriller IMAX
2	Iron Man 2 2010	Action Adventure SciFi Thriller IMAX
3	Amazing Spider-Man, The 2012	Action Adventure SciFi IMAX
4	Ender's Game 2013	Action Adventure SciFi IMAX
5	Captain America: The First Avenger 2011	Action Adventure SciFi Thriller War
6	Thor: The Dark World 2013	Action Adventure Fantasy IMAX
7	Man of Steel 2013	Action Adventure Fantasy SciFi IMAX
8	Avengers: Age of Ultron 2015	Action Adventure SciFi
9	Fast Five Fast and the Furious 5, The 2011	Action Crime Drama Thriller IMAX
10	Furious 7 2015	Action Crime Thriller
11	Wolverine, The 2013	Action Adventure Fantasy SciFi
12	Ant-Man 2015	Action Adventure SciFi
13	Men in Black III M.III.B. M.I.B.³ 2012	Action Comedy SciFi IMAX
14	X-Men: Apocalypse 2016	Action Adventure Fantasy SciFi
15	Thor 2011	Action Adventure Drama Fantasy IMAX

## Drive 2011

Movie title :

How many  18

	title	genres
1	Drive 2011	Crime Drama FilmNoir Thriller
2	Nightcrawler 2014	Crime Drama Thriller
3	Eastern Promises 2007	Crime Drama Thriller
4	Zodiac 2007	Crime Drama Thriller
5	Sicario 2015	Crime Drama Mystery
6	Girl with the Dragon Tattoo, The 2011	Drama Thriller
7	In Bruges 2008	Comedy Crime Drama Thriller
8	Prisoners 2013	Drama Mystery Thriller
9	Fighter, The 2010	Drama
10	Hunt, The Jagten 2012	Drama
11	Wrestler, The 2008	Drama
12	Looper 2012	Action Crime SciFi
13	Birdman: Or The Unexpected Virtue of Ignorance...	Comedy Drama
14	There Will Be Blood 2007	Drama Western
15	The Revenant 2015	Adventure Drama
16	True Grit 2010	Western
17	Blade Runner 2049 2017	SciFi
18	The Hateful Eight 2015	Western

## Django Unchained

Movie title :

How many  15

	title	genres
1	Django Unchained 2012	Action Drama Western
2	The Hateful Eight 2015	Western
3	Inglourious Basterds 2009	Action Drama War
4	Dallas Buyers Club 2013	Drama
5	Big Short, The 2015	Drama
6	Mad Max: Fury Road 2015	Action Adventure SciFi Thriller
7	Skyfall 2012	Action Adventure Thriller IMAX
8	The Revenant 2015	Adventure Drama
9	Girl with the Dragon Tattoo, The 2011	Drama Thriller
10	Gone Girl 2014	Drama Thriller
11	Birdman: Or The Unexpected Virtue of Ignorance...	Comedy Drama
12	Grand Budapest Hotel, The 2014	Comedy Drama
13	Nightcrawler 2014	Crime Drama Thriller
14	Wolf of Wall Street, The 2013	Comedy Crime Drama
15	Drive 2011	Crime Drama FilmNoir Thriller

## Goodfellas

Movie title :

How many  20

	title	genres
1	Goodfellas 1990	Crime Drama
2	Casino 1995	Crime Drama
3	Godfather: Part II, The 1974	Crime Drama
4	Scarface 1983	Action Crime Drama
5	Raging Bull 1980	Drama
6	Boogie Nights 1997	Drama
7	Untouchables, The 1987	Action Crime Drama
8	Taxi Driver 1976	Crime Drama Thriller
9	Rocky 1976	Drama
10	Reservoir Dogs 1992	Crime Mystery Thriller
11	Deer Hunter, The 1978	Drama War
12	Platoon 1986	Drama War
13	Unforgiven 1992	Drama Western
14	Full Metal Jacket 1987	Drama War
15	Chinatown 1974	Crime FilmNoir Mystery Thriller
16	L.A. Confidential 1997	Crime FilmNoir Mystery Thriller
17	There Will Be Blood 2007	Drama Western
18	Apocalypse Now 1979	Action Drama War
19	Good, the Bad and the Ugly, The Buono, il brut...	Action Adventure Western
20	Jaws 1975	Action Horror

## Interstellar

Movie title :

How many  15

	title	genres
1	Interstellar 2014	SciFi IMAX
2	Gravity 2013	Action SciFi IMAX
3	Edge of Tomorrow 2014	Action SciFi IMAX
4	Arrival 2016	SciFi
5	Limitless 2011	SciFi Thriller
6	Ex Machina 2015	Drama SciFi Thriller
7	Logan 2017	Action SciFi
8	The Martian 2015	Adventure Drama SciFi
9	X-Men: Days of Future Past 2014	Action Adventure SciFi
10	Whiplash 2014	Drama
11	Nightcrawler 2014	Crime Drama Thriller
12	Wolf of Wall Street, The 2013	Comedy Crime Drama
13	Gone Girl 2014	Drama Thriller
14	The Imitation Game 2014	Drama Thriller War
15	The Revenant 2015	Adventure Drama

## Harry Potter

Movie title :

How many  15

	title	genres
1	Harry Potter and the Sorcerer's Stone a.k.a. H...	Adventure Children Fantasy
2	Chronicles of Narnia: The Lion, the Witch and ...	Adventure Children Fantasy
3	Harry Potter and the Chamber of Secrets 2002	Adventure Fantasy
4	Harry Potter and the Prisoner of Azkaban 2004	Adventure Fantasy IMAX
5	Harry Potter and the Order of the Phoenix 2007	Adventure Drama Fantasy IMAX
6	Harry Potter and the Deathly Hallows: Part 1 2010	Action Adventure Fantasy IMAX
7	Harry Potter and the Goblet of Fire 2005	Adventure Fantasy Thriller IMAX
8	Hobbit: The Desolation of Smaug, The 2013	Adventure Fantasy IMAX
9	Hobbit: An Unexpected Journey, The 2012	Adventure Fantasy IMAX
10	Pirates of the Caribbean: Dead Man's Chest 2006	Action Adventure Fantasy
11	Harry Potter and the Half-Blood Prince 2009	Adventure Fantasy Mystery Romance IMAX
12	Harry Potter and the Deathly Hallows: Part 2 2011	Action Adventure Drama Fantasy Mystery IMAX
13	Pirates of the Caribbean: At World's End 2007	Action Adventure Comedy Fantasy
14	The Hunger Games: Catching Fire 2013	Action Adventure SciFi IMAX
15	The Hunger Games 2012	Action Adventure Drama SciFi Thriller

## Insidious

Movie title :

How many  15

	title	genres
1	Insidious 2010	Fantasy Horror Thriller
2	Insidious: Chapter 3 2015	Fantasy Horror Thriller
3	Insidious: Chapter 2 2013	Horror Thriller
4	Sinister 2012	Horror Thriller
5	Conjuring, The 2013	Horror Thriller
6	The Conjuring 2 2016	Horror
7	Woman in Black, The 2012	Drama Horror Thriller
8	Oculus 2013	Horror
9	Mama 2013	Horror
10	Paranormal Activity 2009	Horror Thriller
11	Evil Dead 2013	Horror
12	Don't Breathe 2016	Thriller
13	Orphan 2009	Drama Horror Mystery Thriller
14	Grudge, The 2004	Horror Mystery Thriller
15	Drag Me to Hell 2009	Comedy Horror

## Manchester By The Sea

Movie title :

How many  15

	title	genres
1	Manchester by the Sea 2016	Drama
2	The Florida Project 2017	Drama
3	Roma 2018	Drama
4	Moonlight	Drama
5	Shame 2011	Drama
6	Inside Llewyn Davis 2013	Drama
7	Master, The 2012	Drama
8	The Favourite	Drama
9	Call Me by Your Name 2017	Drama Romance
10	Hell or High Water 2016	Crime Drama
11	Nocturnal Animals	Drama Thriller
12	La La Land 2016	Comedy Drama Romance
13	Whiplash 2013	no
14	The Big Sick 2017	Comedy Romance
15	Lady Bird 2017	Comedy

## Casablanca

Movie title :

How many  15

	title	genres
1	Casablanca 1942	Drama Romance
2	Sunset Blvd. a.k.a. Sunset Boulevard 1950	Drama FilmNoir Romance
3	Philadelphia Story, The 1940	Comedy Drama Romance
4	On the Waterfront 1954	Crime Drama
5	Citizen Kane 1941	Drama Mystery
6	African Queen, The 1951	Adventure Comedy Romance War
7	Double Indemnity 1944	Crime Drama FilmNoir
8	Singin' in the Rain 1952	Comedy Musical Romance
9	Treasure of the Sierra Madre, The 1948	Action Adventure Drama Western
10	Bridge on the River Kwai, The 1957	Adventure Drama War
11	North by Northwest 1959	Action Adventure Mystery Romance Thriller
12	Manchurian Candidate, The 1962	Crime Thriller War
13	Third Man, The 1949	FilmNoir Mystery Thriller
14	Maltese Falcon, The 1941	FilmNoir Mystery
15	Big Sleep, The 1946	Crime FilmNoir Mystery

## Tropic Thunder

Movie title :

How many  15

	title	genres
1	Tropic Thunder 2008	Action Adventure Comedy War
2	Other Guys, The 2010	Action Comedy
3	Talladega Nights: The Ballad of Ricky Bobby 2006	Action Comedy
4	Team America: World Police 2004	Action Adventure Animation Comedy
5	Pineapple Express 2008	Action Comedy Crime
6	22 Jump Street 2014	Action Comedy Crime
7	21 Jump Street 2012	Action Comedy Crime
8	Role Models 2008	Comedy
9	Step Brothers 2008	Comedy
10	Dodgeball: A True Underdog Story 2004	Comedy
11	I Love You, Man 2009	Comedy
12	Anchorman: The Legend of Ron Burgundy 2004	Comedy
13	Tucker & Dale vs Evil 2010	Comedy Horror
14	Forgetting Sarah Marshall 2008	Comedy Romance
15	Super Troopers 2001	Comedy Crime Mystery

## Spirited Away

Movie title :

How many  15

	title	genres
1	Spirited Away Sen to Chihiro no kamikakushi 2001	Adventure Animation Fantasy
2	Kiki's Delivery Service Majo no takkyûbin 1989	Adventure Animation Children Drama Fantasy
3	Nausicaä of the Valley of the Wind Kaze no tan...	Adventure Animation Drama Fantasy SciFi
4	Howl's Moving Castle Hauru no ugoku shiro 2004	Adventure Animation Fantasy Romance
5	Laputa: Castle in the Sky Tenkû no shiro Rapyu...	Action Adventure Animation Children Fantasy SciFi
6	Princess Mononoke Mononoke-hime 1997	Action Adventure Animation Drama Fantasy
7	My Neighbor Totoro Tonari no Totoro 1988	Animation Children Drama Fantasy
8	Akira 1988	Action Adventure Animation SciFi
9	Grave of the Fireflies Hotaru no haka 1988	Animation Drama War
10	Ghost in the Shell Kôkaku kidôtai 1995	Animation SciFi
11	WALL·E 2008	Adventure Animation Children Romance SciFi
12	Pan's Labyrinth Laberinto del fauno, El 2006	Drama Fantasy Thriller
13	Moon 2009	Drama Mystery SciFi Thriller
14	Grand Budapest Hotel, The 2014	Comedy Drama
15	Old Boy 2003	Mystery Thriller

## Coraline

Movie title :

How many  15

	title	genres
1	Coraline 2009	Animation Fantasy Thriller
2	Ponyo Gake no ue no Ponyo 2008	Adventure Animation Children Fantasy
3	Sweeney Todd: The Demon Barber of Fleet Street...	Drama Horror Musical Thriller
4	Corpse Bride 2005	Animation Comedy Fantasy Musical Romance
5	Howl's Moving Castle Hauru no ugoku shiro 2004	Adventure Animation Fantasy Romance
6	Kiki's Delivery Service Majo no takkyûbin 1989	Adventure Animation Children Drama Fantasy
7	Wreck-It Ralph 2012	Animation Comedy
8	The Lego Movie 2014	Action Adventure Animation Children Comedy Fan...
9	Laputa: Castle in the Sky Tenkû no shiro Rapyu...	Action Adventure Animation Children Fantasy SciFi
10	Tangled 2010	Animation Children Comedy Fantasy Musical Roma...
11	Brave 2012	Action Adventure Animation Children
12	Stardust 2007	Adventure Comedy Fantasy Romance
13	Fantastic Mr. Fox 2009	Adventure Animation Children Comedy Crime
14	Scott Pilgrim vs. the World 2010	Action Comedy Fantasy Musical Romance
15	Lilo & Stitch 2002	Adventure Animation Children SciFi

## Memories of Murder 2003

Movie title :

How many  15

	title	genres
1	Memories of Murder Salinui chueok 2003	Crime Drama Mystery Thriller
2	Mother Madeo 2009	Crime Drama Mystery Thriller
3	Chaser, The Chugyeogja 2008	Crime Drama Thriller
4	I Saw the Devil Akmareul boatda 2010	Crime Thriller
5	Lady Vengeance Sympathy for Lady Vengeance Chi...	Crime Drama Mystery Thriller
6	Sympathy for Mr. Vengeance Boksuneun naui geot...	Crime Drama
7	Infernal Affairs Mou gaan dou 2002	Crime Drama Thriller
8	Secret in Their Eyes, The El secreto de sus oj...	Crime Drama Mystery Romance Thriller
9	Prophet, A Un Prophète 2009	Crime Drama
10	The Handmaiden 2016	Drama Romance Thriller
11	Incendies 2010	Drama Mystery War
12	Separation, A Jodaeiye Nader az Simin 2011	Drama
13	Hunt, The Jagten 2012	Drama
14	3-Iron Bin-jip 2004	Drama Romance
15	The Raid: Redemption 2011	Action Crime

## The Host Gwoemul

Movie title :

How many  15

	title	genres
1	Host, The Gwoemul 2006	Comedy Drama Horror SciFi Thriller
2	Mother Madeo 2009	Crime Drama Mystery Thriller
3	Descent, The 2005	Adventure Drama Horror Thriller
4	Mist, The 2007	Horror SciFi
5	Orphanage, The Orfanato, El 2007	Drama Horror Mystery Thriller
6	Memories of Murder Salinui chueok 2003	Crime Drama Mystery Thriller
7	Hard Candy 2005	Drama Thriller
8	It Follows 2014	Horror
9	Sunshine 2007	Adventure Drama SciFi Thriller
10	Lady Vengeance Sympathy for Lady Vengeance Chi...	Crime Drama Mystery Thriller
11	Snowpiercer 2013	Action Drama SciFi
12	Prophet, A Un Prophète 2009	Crime Drama
13	Hellboy II: The Golden Army 2008	Action Adventure Fantasy SciFi
14	Brick 2005	Crime Drama FilmNoir Mystery
15	Grizzly Man 2005	Documentary