```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

## Importing and reading the movie database. Storing it in a variable called movies.

```
In [370... movies = pd.read_csv('IMDB_Movies.csv')
    originaldata = movies
    movies
```

Out[370]:		color	director_name	num_critic_for_reviews	duration	director_facebook_likes	actor_3_facebook_likes	actor_2_name	actor_1_facebook_likes	
	0	Color	James Cameron	723.0	178.0	0.0	855.0	Joel David Moore	1000.0	7
	1	Color	Gore Verbinski	302.0	169.0	563.0	1000.0	Orlando Bloom	40000.0	3
	2	Color	Sam Mendes	602.0	148.0	0.0	161.0	Rory Kinnear	11000.0	2
	3	Color	Christopher Nolan	813.0	164.0	22000.0	23000.0	Christian Bale	27000.0	4
	4	NaN	Doug Walker	NaN	NaN	131.0	NaN	Rob Walker	131.0	
	•••									
	5038	Color	Scott Smith	1.0	87.0	2.0	318.0	Daphne Zuniga	637.0	
	5039	Color	NaN	43.0	43.0	NaN	319.0	Valorie Curry	841.0	
	5040	Color	Benjamin Roberds	13.0	76.0	0.0	0.0	Maxwell Moody	0.0	
	5041	Color	Daniel Hsia	14.0	100.0	0.0	489.0	Daniel Henney	946.0	
	5042	Color	Jon Gunn	43.0	90.0	16.0	16.0	Brian Herzlinger	86.0	
5	5043 r	ows ×	28 columns							
										<b>&gt;</b>

#### Inspecting the dataframe shapes, coloumns, varible types etc.

```
In [371... movies.shape
Out[371]: (5043, 28)
In [372... movies.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 5043 entries, 0 to 5042
Data columns (total 28 columns):
                                Non-Null Count Dtype
     Column
     color
                                5024 non-null
                                                object
     director name
                                4939 non-null
                                                object
     num critic for reviews
                                4993 non-null
                                                float64
     duration
                                5028 non-null
                                                float64
     director facebook likes
                                4939 non-null
                                                float64
     actor 3 facebook likes
                                5020 non-null
                                                float64
     actor 2 name
                                5030 non-null
                                                object
     actor 1 facebook likes
                                5036 non-null
                                                float64
8
     gross
                                4159 non-null
                                                float64
                                5043 non-null
                                                object
     genres
                                5036 non-null
     actor 1 name
                                                object
    movie title
                                5043 non-null
                                                object
    num voted users
                                5043 non-null
                                                int64
     cast total facebook likes 5043 non-null
                                                int64
     actor_3_name
                                5020 non-null
                                                object
   facenumber in poster
                                5030 non-null
                                                float64
    plot keywords
                                4890 non-null
                                                object
17 movie imdb link
                                5043 non-null
                                                object
    num user for reviews
                                5023 non-null
                                                object
19 language
                                5031 non-null
                                                object
     country
                                5038 non-null
                                                object
 21 content rating
                                4740 non-null
                                                object
    budget
                                4551 non-null
                                                float64
 23 title year
                                4935 non-null
                                                float64
 24 actor 2 facebook likes
                                5030 non-null
                                                float64
 25 imdb score
                                5043 non-null
                                                float64
    aspect_ratio
                                4714 non-null
                                                float64
 27 movie facebook likes
                                5043 non-null
                                                int64
dtypes: float64(12), int64(3), object(13)
memory usage: 1.1+ MB
```

Calculating the number of Null values of rows and coloumns. Finding the percentage of Null values in each coloumn.

```
In [373... movies.isnull().sum(axis=0).sort values(ascending=False)
Out[373]: gross
                                        884
          budget
                                        492
          aspect ratio
                                        329
          content rating
                                        303
          plot keywords
                                        153
          title year
                                        108
          director name
                                        104
          director facebook likes
                                        104
          num critic for reviews
                                         50
          actor 3 name
                                         23
          actor 3 facebook likes
                                         23
          num_user_for_reviews
                                         20
          color
                                         19
          duration
                                         15
          facenumber_in_poster
                                         13
          actor_2_name
                                         13
          actor_2_facebook_likes
                                         13
          language
                                         12
          actor_1_name
                                          7
          actor_1_facebook_likes
                                          7
                                          5
          country
          cast_total_facebook_likes
          num_voted_users
                                          0
          movie_title
          movie_imdb_link
                                          0
          genres
          imdb score
          movie_facebook_likes
                                          0
          dtype: int64
In [374... movies.isnull().sum(axis=1).sort_values(ascending=False)
```

```
Out[374]: 279
                  15
                  13
          4945
                  11
          2241
                  11
          2342
                  10
          1703
                   0
          1702
                    0
          1701
                    0
          1700
                    0
          5042
                    0
          Length: 5043, dtype: int64
In [375... movies.isnull().sum(axis=0).sort_values(ascending=False)/len(movies) * 100
```

Out[375]:	gnoss	17.529248
ouc[5/5].	budget	9.756098
	aspect_ratio	6.523895
	content_rating	6.008328
	plot_keywords	3.033908
	title_year	2.141582
	director_name	2.062265
	director_facebook_likes	2.062265
	num_critic_for_reviews	0.991473
	actor 3 name	0.456078
	actor_3_facebook_likes	0.456078
	num_user_for_reviews	0.396589
	color	0.376760
	duration	0.297442
	facenumber_in_poster	0.257783
	actor 2 name	0.257783
	actor_2_facebook_likes	0.257783
	language	0.237954
	actor_1_name	0.138806
	actor 1 facebook likes	0.138806
	country	0.099147
	cast_total_facebook_likes	0.000000
	num_voted_users	0.000000
	movie_title	0.000000
	movie_imdb_link	0.000000
	genres	0.000000
	imdb_score	0.000000
	movie_facebook_likes	0.000000
	dtype: float64	

#### Drop the unecessary coloumns.

#### Coloumns which are irrelevant and to be dropped are:

color director\_facebook\_likes actor\_1\_facebook\_likes actor\_2\_facebook\_likes actor\_3\_facebook\_likes actor\_2\_name cast\_total\_facebook\_likes actor\_3\_name duration facenumber\_in\_poster content\_rating country movies\_imdb\_link aspect\_ratio plot\_keywords

```
In [376... movies = movies.drop([
             'color',
             'director_facebook_likes',
             'actor 1 facebook likes',
             'actor 2 facebook likes',
             'actor 3 facebook likes',
             'actor_2_name',
             'cast_total_facebook_likes',
             'actor 3 name',
             'duration',
             'facenumber_in_poster',
             'content rating',
             'country',
             'movie_imdb_link',
             'aspect_ratio',
             'plot_keywords'],axis=1)
In [377... movies
```

Out[377]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_for_revi
	0	James Cameron	723.0	760505847.0	Action Adventure Fantasy Sci- Fi	CCH Pounder	Avatar	886204	3
	1	Gore Verbinski	302.0	309404152.0	Action   Adventure   Fantasy	Johnny Depp	Pirates of the Caribbean: At World's End	471220	1
	2	Sam Mendes	602.0	200074175.0	Action Adventure Thriller	Christoph Waltz	Spectre	275868	
	3	Christopher Nolan	813.0	448130642.0	Action Thriller	Tom Hardy	The Dark Knight Rises	1144337	2
	4	Doug Walker	NaN	NaN	Documentary	Doug Walker	Star Wars: Episode VII - The Force Awakens	8	
	•••								
5	5038	Scott Smith	1.0	NaN	Comedy Drama	Eric Mabius	Signed Sealed Delivered	629	
5	5039	NaN	43.0	NaN	Crime Drama Mystery Thriller	Natalie Zea	The Following	73839	
5	5040	Benjamin Roberds	13.0	NaN	Drama Horror Thriller	Eva Boehnke	A Plague So Pleasant	38	
5	5041	Daniel Hsia	14.0	10443.0	Comedy Drama Romance	Alan Ruck	Shanghai Calling	1255	
5	5042	Jon Gunn	43.0	85222.0	Documentary	John August	My Date with Drew	4285	

5043 rows × 13 columns

•

### Drop the unecessary rows using coloumns with high Null percentages(greater than 5%) of Null Values.

```
In [378... round(movies.isnull().sum().sort values(ascending=False)/len(movies)*100,2)
                                    17.53
Out[378]: gross
                                     9.76
          budget
          title year
                                     2.14
          director name
                                     2.06
          num critic for reviews
                                     0.99
          num user for reviews
                                     0.40
          language
                                     0.24
                                     0.14
          actor 1 name
          genres
                                     0.00
                                     0.00
          movie title
          num voted users
                                     0.00
          imdb score
                                     0.00
          movie facebook likes
                                     0.00
          dtype: float64
         movies = movies[movies['gross'].notnull()]
          movies = movies[movies['budget'].notnull()]
         round(movies.isnull().sum().sort values(ascending=False)/len(movies)*100,2)
```

```
Out[380]: actor 1 name
                                     0.08
          language
                                     0.08
          num critic for reviews
                                     0.03
           director name
                                     0.00
                                     0.00
           gross
                                     0.00
           genres
                                     0.00
          movie title
          num voted users
                                     0.00
          num user for reviews
                                     0.00
          budget
                                     0.00
          title year
                                     0.00
          imdb score
                                     0.00
          movie facebook likes
                                     0.00
          dtype: float64
```

Drop more unecessary rows which might have greater than five NaN values. Such rows are not of much use for the analysis and hence, should be removed.

Out[382]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_
	0	James Cameron	723.0	760505847.0	Action Adventure Fantasy Sci-Fi	CCH Pounder	Avatar	886204	
	1	Gore Verbinski	302.0	309404152.0	Action Adventure Fantasy	Johnny Depp	Pirates of the Caribbean: At World's End	471220	
	2	Sam Mendes	602.0	200074175.0	Action Adventure Thriller	Christoph Waltz	Spectre	275868	
	3	Christopher Nolan	813.0	448130642.0	Action Thriller	Tom Hardy	The Dark Knight Rises	1144337	
	5	Andrew Stanton	462.0	73058679.0	Action Adventure Sci-Fi	Daryl Sabara	John Carter	212204	
	•••								
	5033	Shane Carruth	143.0	424760.0	Drama Sci-Fi Thriller	Shane Carruth	Primer	72639	
	5034	Neill Dela Llana	35.0	70071.0	Thriller	lan Gamazon	Cavite	589	
	5035	Robert Rodriguez	56.0	2040920.0	Action Crime Drama Romance Thriller	Carlos Gallardo	El Mariachi	52055	
	5037	Edward Burns	14.0	4584.0	Comedy Drama	Kerry Bishé	Newlyweds	1338	
	5042	Jon Gunn	43.0	85222.0	Documentary	John August	My Date with Drew	4285	
3	3891 rd	ows × 13 colum	nns						
4									•

### Replace all the missing NaN values with 'English' in the Language coloumn.

```
round(movies.isnull().sum().sort values(ascending=False)/len(movies)*100,2)
In [383...
Out[383]: actor 1 name
                                     0.08
                                     0.08
          language
          num critic for reviews
                                     0.03
          director name
                                     0.00
          gross
                                     0.00
                                     0.00
          genres
          movie_title
                                     0.00
          num voted users
                                     0.00
          num user for reviews
                                     0.00
          budget
                                     0.00
          title year
                                     0.00
          imdb score
                                     0.00
          movie_facebook_likes
                                     0.00
          dtype: float64
In [384... movies.language.describe()
                        3888
Out[384]: count
                          38
          unique
                     English
          top
                        3707
          freq
          Name: language, dtype: object
          movies.language = movies.language.fillna('English')
In [385...
In [386... round(movies.isnull().sum().sort_values(ascending=False)/len(movies)*100,2)
```

```
Out[386]: actor 1 name
                                    0.08
          num critic for reviews
                                    0.03
          director name
                                    0.00
          gross
                                    0.00
                                    0.00
          genres
          movie_title
                                    0.00
          num voted users
                                    0.00
          num user for reviews
                                    0.00
          language
                                    0.00
          budget
                                    0.00
          title year
                                    0.00
          imdb score
                                    0.00
          movie facebook likes
                                    0.00
          dtype: float64
```

### Checking the percentage of the rows retained after completing all the tasks above.

In [387... movies

Out[387]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_
	0	James Cameron	723.0	760505847.0	Action Adventure Fantasy Sci-Fi	CCH Pounder	Avatar	886204	
	1	Gore Verbinski	302.0	309404152.0	Action Adventure Fantasy	Johnny Depp	Pirates of the Caribbean: At World's End	471220	
	2	Sam Mendes	602.0	200074175.0	Action Adventure Thriller	Christoph Waltz	Spectre	275868	
	3	Christopher Nolan	813.0	448130642.0	Action Thriller	Tom Hardy	The Dark Knight Rises	1144337	
	5	Andrew Stanton	462.0	73058679.0	Action Adventure Sci-Fi	Daryl Sabara	John Carter	212204	
	•••								
	5033	Shane Carruth	143.0	424760.0	Drama Sci-Fi Thriller	Shane Carruth	Primer	72639	
	5034	Neill Dela Llana	35.0	70071.0	Thriller	lan Gamazon	Cavite	589	
	5035	Robert Rodriguez	56.0	2040920.0	Action Crime Drama Romance Thriller	Carlos Gallardo	El Mariachi	52055	
	5037	Edward Burns	14.0	4584.0	Comedy Drama	Kerry Bishé	Newlyweds	1338	
	5042	Jon Gunn	43.0	85222.0	Documentary	John August	My Date with Drew	4285	

3891 rows × 13 columns

In [388... len(movies)/len(originaldata)\* 100

Out[388]: 77.15645449137418

### Analysing Data - Converting the unit of budget and gross colourns to million dollar.

```
In [389... movies['budget'] = movies['budget']/1000000
movies['gross'] = movies['gross']/1000000
In [390... movies
```

Out[390]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_fo
	0	James Cameron	723.0	760.505847	Action Adventure Fantasy Sci-Fi	CCH Pounder	Avatar	886204	
	1	Gore Verbinski	302.0	309.404152	Action   Adventure   Fantasy	Johnny Depp	Pirates of the Caribbean: At World's End	471220	
	2	Sam Mendes	602.0	200.074175	Action Adventure Thriller	Christoph Waltz	Spectre	275868	
	3	Christopher Nolan	813.0	448.130642	Action Thriller	Tom Hardy	The Dark Knight Rises	1144337	
	5	Andrew Stanton	462.0	73.058679	Action Adventure Sci-Fi	Daryl Sabara	John Carter	212204	
	•••								
	5033	Shane Carruth	143.0	0.424760	Drama Sci-Fi Thriller	Shane Carruth	Primer	72639	
	5034	Neill Dela Llana	35.0	0.070071	Thriller	lan Gamazon	Cavite	589	
	5035	Robert Rodriguez	56.0	2.040920	Action Crime Drama Romance Thriller	Carlos Gallardo	El Mariachi	52055	
	5037	Edward Burns	14.0	0.004584	Comedy Drama	Kerry Bishé	Newlyweds	1338	
	5042	Jon Gunn	43.0	0.085222	Documentary	John August	My Date with Drew	4285	
3	3891 rd	ows × 13 colum	nns						
4									<b>&gt;</b>

### Finding the movies with highest profit and store the top ten movies with highest profit in a new dataframe- top 10

In [391... movies['profit'] = movies['gross'] - movies['budget']
movies

ut[391]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_fc
	0	James Cameron	723.0	760.505847	Action Adventure Fantasy Sci-Fi	CCH Pounder	Avatar	886204	
	1	Gore Verbinski	302.0	309.404152	Action   Adventure   Fantasy	Johnny Depp	Pirates of the Caribbean: At World's End	471220	
	2	Sam Mendes	602.0	200.074175	Action Adventure Thriller	Christoph Waltz	Spectre	275868	
	3	Christopher Nolan	813.0	448.130642	Action Thriller	Tom Hardy	The Dark Knight Rises	1144337	
	5	Andrew Stanton	462.0	73.058679	Action Adventure Sci-Fi	Daryl Sabara	John Carter	212204	
	•••								
	5033	Shane Carruth	143.0	0.424760	Drama Sci-Fi Thriller	Shane Carruth	Primer	72639	
	5034	Neill Dela Llana	35.0	0.070071	Thriller	lan Gamazon	Cavite	589	
	5035	Robert Rodriguez	56.0	2.040920	Action Crime Drama Romance Thriller	Carlos Gallardo	El Mariachi	52055	
	5037	Edward Burns	14.0	0.004584	Comedy Drama	Kerry Bishé	Newlyweds	1338	
	5042	Jon Gunn	43.0	0.085222	Documentary	John August	My Date with Drew	4285	
_	0001	14							

3891 rows × 14 columns

In [392... movies.sort\_values(by='profit',ascending=False)

Out[392]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_
	0	James Cameron	723.0	760.505847	Action Adventure Fantasy Sci-Fi	CCH Pounder	Avatar	886204	
	29	Colin Trevorrow	644.0	652.177271	Action Adventure Sci-Fi Thriller	Bryce Dallas Howard	Jurassic World	418214	
	26	James Cameron	315.0	658.672302	Drama Romance	Leonardo DiCaprio	Titanic	793059	
	3024	George Lucas	282.0	460.935665	Action Adventure Fantasy Sci-Fi	Harrison Ford	Star Wars: Episode IV - A New Hope	911097	
	3080	Steven Spielberg	215.0	434.949459	Family Sci-Fi	Henry Thomas	E.T. the Extra- Terrestrial	281842	
	•••								
	2334	Katsuhiro Ôtomo	105.0	0.410388	Action Adventure Animation Family Sci- Fi Thriller	William Hootkins	Steamboy	13727	
	2323	Hayao Miyazaki	174.0	2.298191	Adventure Animation Fantasy	Minnie Driver	Princess Mononoke	221552	
	3005	Lajos Koltai	73.0	0.195888	Drama Romance War	Marcell Nagy	Fateless	5603	
	3859	Chan-wook Park	202.0	0.211667	Crime Drama	Min-sik Choi	Lady Vengeance	53508	
	2988	Joon-ho Bong	363.0	2.201412	Comedy Drama Horror Sci-Fi	Doona Bae	The Host	68883	
;	3891 r	ows × 14 colum	nns						
4									•

In [393... top10 = movies.sort\_values(by='profit',ascending=False).head(10)
top10

Out[393]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_u
	0	James Cameron	723.0	760.505847	Action   Adventure   Fantasy   Sci-Fi	CCH Pounder	Avatar	886204	
	29	Colin Trevorrow	644.0	652.177271	Action Adventure Sci-Fi Thriller	Bryce Dallas Howard	Jurassic World	418214	
	26	James Cameron	315.0	658.672302	Drama Romance	Leonardo DiCaprio	Titanic	793059	
	3024	George Lucas	282.0	460.935665	Action   Adventure   Fantasy   Sci-Fi	Harrison Ford	Star Wars: Episode IV - A New Hope	911097	
	3080	Steven Spielberg	215.0	434.949459	Family Sci-Fi	Henry Thomas	E.T. the Extra- Terrestrial	281842	
	794	Joss Whedon	703.0	623.279547	Action Adventure Sci-Fi	Chris Hemsworth	The Avengers	995415	
	17	Joss Whedon	703.0	623.279547	Action Adventure Sci-Fi	Chris Hemsworth	The Avengers	995415	
	509	Roger Allers	186.0	422.783777	Adventure Animation Drama Family Musical	Matthew Broderick	The Lion King	644348	
	240	George Lucas	320.0	474.544677	Action   Adventure   Fantasy   Sci-Fi	Natalie Portman	Star Wars: Episode I - The Phantom Menace	534658	
	66	Christopher Nolan	645.0	533.316061	Action Crime Drama Thriller	Christian Bale	The Dark Knight	1676169	
4									<b>&gt;</b>

#### Drop the duplicate values.

In [394... movies.drop\_duplicates(keep='first',inplace=True)

In [395... movies

Out	[39	5]:
-----	-----	-----

:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_fo
	0	James Cameron	723.0	760.505847	Action Adventure Fantasy Sci-Fi	CCH Pounder	Avatar	886204	
	1	Gore Verbinski	302.0	309.404152	Action Adventure Fantasy	Johnny Depp	Pirates of the Caribbean: At World's End	471220	
	2	Sam Mendes	602.0	200.074175	Action Adventure Thriller	Christoph Waltz	Spectre	275868	
	3	Christopher Nolan	813.0	448.130642	Action Thriller	Tom Hardy	The Dark Knight Rises	1144337	
	5	Andrew Stanton	462.0	73.058679	Action Adventure Sci-Fi	Daryl Sabara	John Carter	212204	
	•••								
50	033	Shane Carruth	143.0	0.424760	Drama Sci-Fi Thriller	Shane Carruth	Primer	72639	
50	034	Neill Dela Llana	35.0	0.070071	Thriller	lan Gamazon	Cavite	589	
5	035	Robert Rodriguez	56.0	2.040920	Action Crime Drama Romance Thriller	Carlos Gallardo	El Mariachi	52055	
50	037	Edward Burns	14.0	0.004584	Comedy Drama	Kerry Bishé	Newlyweds	1338	
5	042	Jon Gunn	43.0	0.085222	Documentary	John August	My Date with Drew	4285	

3856 rows × 14 columns

In [396... top10 = movies.sort\_values(by='profit',ascending=False).head(10)
top10

Out[396]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_ι
	0	James Cameron	723.0	760.505847	Action   Adventure   Fantasy   Sci-Fi	CCH Pounder	Avatar	886204	
	29	Colin Trevorrow	644.0	652.177271	Action Adventure Sci-Fi Thriller	Bryce Dallas Howard	Jurassic World	418214	
	26	James Cameron	315.0	658.672302	Drama Romance	Leonardo DiCaprio	Titanic	793059	
	3024	George Lucas	282.0	460.935665	Action   Adventure   Fantasy   Sci-Fi	Harrison Ford	Star Wars: Episode IV - A New Hope	911097	
	3080	Steven Spielberg	215.0	434.949459	Family Sci-Fi	Henry Thomas	E.T. the Extra- Terrestrial	281842	
	17	Joss Whedon	703.0	623.279547	Action Adventure Sci-Fi	Chris Hemsworth	The Avengers	995415	
	509	Roger Allers	186.0	422.783777	Adventure   Animation   Drama   Family   Musical	Matthew Broderick	The Lion King	644348	
	240	George Lucas	320.0	474.544677	Action   Adventure   Fantasy   Sci-Fi	Natalie Portman	Star Wars: Episode I - The Phantom Menace	534658	
	66	Christopher Nolan	645.0	533.316061	Action Crime Drama Thriller	Christian Bale	The Dark Knight	1676169	
	439	Gary Ross	673.0	407.999255	Adventure Drama Sci-Fi Thriller	Jennifer Lawrence	The Hunger Games	701607	
4									•

# Finding IMDB top 100 movies with highest IMDB rating and number of voted users greater than 25000. Add a rank coloumn containing the values 1 to 100.

```
In [397... IMDb_Top_100 = movies[movies['num_voted_users'] > 25000].sort_values(by='imdb_score',ascending=False).head(100)
IMDb_Top_100
```

Out[397]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_fo
	1937	Frank Darabont	199.0	28.341469	Crime Drama	Morgan Freeman	The Shawshank Redemption	1689764	
	3466	Francis Ford Coppola	208.0	134.821952	Crime Drama	Al Pacino	The Godfather	1155770	
	2837	Francis Ford Coppola	149.0	57.300000	Crime Drama	Robert De Niro	The Godfather: Part II	790926	
	66	Christopher Nolan	645.0	533.316061	Action Crime Drama Thriller	Christian Bale	The Dark Knight	1676169	
	4498	Sergio Leone	181.0	6.100000	Western	Clint Eastwood	The Good, the Bad and the Ugly	503509	
	•••								
	27	Anthony Russo	516.0	407.197282	Action Adventure Sci-Fi	Robert Downey Jr.	Captain America: Civil War	272670	
	4000	Juan José Campanella	262.0	20.167424	Drama Mystery Thriller	Ricardo Darín	The Secret in Their Eyes	131831	
	3550	Denis Villeneuve	226.0	6.857096	Drama Mystery War	Lubna Azabal	Incendies	80429	
	3970	Victor Fleming	157.0	198.655278	Drama History Romance War	Hattie McDaniel	Gone with the Wind	215340	
	2047	Hayao Miyazaki	212.0	4.710455	Adventure   Animation   Family   Fantasy	Christian Bale	Howl's Moving Castle	214091	

100 rows × 14 columns

In [398... IMDb\_Top\_100['Rank'] = IMDb\_Top\_100['imdb\_score'].rank(method='first',ascending=False)

IMDb\_Top\_100

Out[398]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_fo
	1937	Frank Darabont	199.0	28.341469	Crime Drama	Morgan Freeman	The Shawshank	1689764	

•	an ector_name	num_critic_for_reviews	gioss	gemes	actor_1_name	movie_title	num_voteu_users	num_user_ro
1937	Frank Darabont	199.0	28.341469	Crime Drama	Morgan Freeman	The Shawshank Redemption	1689764	
3466	Francis Ford Coppola	208.0	134.821952	Crime Drama	Al Pacino	The Godfather	1155770	
2837	Francis Ford Coppola	149.0	57.300000	Crime Drama	Robert De Niro	The Godfather: Part II	790926	
66	Christopher Nolan	645.0	533.316061	Action Crime Drama Thriller	Christian Bale	The Dark Knight	1676169	
4498	Sergio Leone	181.0	6.100000	Western	Clint Eastwood	The Good, the Bad and the Ugly	503509	
•••								
27	Anthony Russo	516.0	407.197282	Action Adventure Sci-Fi	Robert Downey Jr.	Captain America: Civil War	272670	
4000	Juan José Campanella	262.0	20.167424	Drama Mystery Thriller	Ricardo Darín	The Secret in Their Eyes	131831	
3550	Denis Villeneuve	226.0	6.857096	Drama Mystery War	Lubna Azabal	Incendies	80429	
3970	Victor Fleming	157.0	198.655278	Drama History Romance War	Hattie McDaniel	Gone with the Wind	215340	
2047	Hayao Miyazaki	212.0	4.710455	Adventure   Animation   Family   Fantasy	Christian Bale	Howl's Moving Castle	214091	

100 rows × 15 columns

In [399... IMDb\_Top\_100[IMDb\_Top\_100['language']!='English']

Out[399]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_foi
	4498	Sergio Leone	181.0	6.100000	Western	Clint Eastwood	The Good, the Bad and the Ugly	503509	
	4747	Akira Kurosawa	153.0	0.269061	Action Adventure Drama	Takashi Shimura	Seven Samurai	229012	
	4029	Fernando Meirelles	214.0	7.563397	Crime Drama	Alice Braga	City of God	533200	
	2373	Hayao Miyazaki	246.0	10.049886	Adventure   Animation   Family   Fantasy	Bunta Sugawara	Spirited Away	417971	
	4259	Florian Henckel von Donnersmarck	215.0	11.284657	Drama Thriller	Sebastian Koch	The Lives of Others	259379	
	4921	Majid Majidi	46.0	0.925402	Drama Family	Bahare Seddiqi	Children of Heaven	27882	
	2323	Hayao Miyazaki	174.0	2.298191	Adventure Animation Fantasy	Minnie Driver	Princess Mononoke	221552	
	2970	Wolfgang Petersen	96.0	11.433134	Adventure   Drama   Thriller   War	Jürgen Prochnow	Das Boot	168203	
	4105	Chan-wook Park	305.0	2.181290	Drama Mystery Thriller	Min-sik Choi	Oldboy	356181	
	4659	Asghar Farhadi	354.0	7.098492	Drama Mystery	Shahab Hosseini	A Separation	151812	
	1329	S.S. Rajamouli	44.0	6.498000	Action   Adventure   Drama   Fantasy   War	Tamannaah Bhatia	Baahubali: The Beginning	62756	
	1298	Jean-Pierre Jeunet	242.0	33.201661	Comedy Romance	Mathieu Kassovitz	Amélie	534262	
	2734	Fritz Lang	260.0	0.026435	Drama Sci-Fi	Brigitte Helm	Metropolis	111841	
	4033	Thomas Vinterberg	349.0	0.610968	Drama	Thomas Bo Larsen	The Hunt	170155	

	director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_foi
2829	Oliver Hirschbiegel	192.0	5.501940	Biography Drama History War	Thomas Kretschmann	Downfall	248354	
2551	Guillermo del Toro	406.0	37.623143	Drama Fantasy War	Ivana Baquero	Pan's Labyrinth	467234	
4000	Juan José Campanella	262.0	20.167424	Drama Mystery Thriller	Ricardo Darín	The Secret in Their Eyes	131831	
3550	Denis Villeneuve	226.0	6.857096	Drama Mystery War	Lubna Azabal	Incendies	80429	
2047	Hayao Miyazaki	212.0	4.710455	Adventure   Animation   Family   Fantasy	Christian Bale	Howl's Moving Castle	214091	

### Finding the best directors with high imdb scores and store top 10 directors in a new coloumn.

```
top10director = movies.groupby('director_name').imdb_score.mean().sort_values(ascending=False).head(10)
          top10director
Out[400]: director_name
          Charles Chaplin
                                   8.600000
          Tony Kaye
                                   8.600000
          Alfred Hitchcock
                                   8.500000
          Ron Fricke
                                   8.500000
          Damien Chazelle
                                   8.500000
          Majid Majidi
                                   8.500000
          Sergio Leone
                                   8.433333
          Christopher Nolan
                                   8.425000
          S.S. Rajamouli
                                   8,400000
          Marius A. Markevicius
                                   8.400000
          Name: imdb_score, dtype: float64
```

#### Finding popular genres.

```
TempGenre = movies.genres.str.split('|',expand=True).iloc[:,0:2]
TempGenre.columns=['genre_1','genre_2']
TempGenre.genre_2.fillna(TempGenre.genre_1,inplace=True)
TempGenre
```

Out[401]:		genre_1	genre_2
	0	Action	Adventure
	1	Action	Adventure
	2	Action	Adventure
	3	Action	Thriller
	5	Action	Adventure
	•••		
	5033	Drama	Sci-Fi
	5034	Thriller	Thriller
	5035	Action	Crime
	5037	Comedy	Drama
	5042	Documentary	Documentary

3856 rows × 2 columns

```
In [402... movies = pd.concat([movies,TempGenre],axis=1)
    movies
```

Out[402]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_users	num_user_fo
	0	James Cameron	723.0	760.505847	Action   Adventure   Fantasy   Sci-Fi	CCH Pounder	Avatar	886204	
	1	Gore Verbinski	302.0	309.404152	Action Adventure Fantasy	Johnny Depp	Pirates of the Caribbean: At World's End	471220	
	2	Sam Mendes	602.0	200.074175	Action Adventure Thriller	Christoph Waltz	Spectre	275868	
	3	Christopher Nolan	813.0	448.130642	Action Thriller	Tom Hardy	The Dark Knight Rises	1144337	
	5	Andrew Stanton	462.0	73.058679	Action Adventure Sci-Fi	Daryl Sabara	John Carter	212204	
	•••								
	5033	Shane Carruth	143.0	0.424760	Drama Sci-Fi Thriller	Shane Carruth	Primer	72639	
	5034	Neill Dela Llana	35.0	0.070071	Thriller	lan Gamazon	Cavite	589	
	5035	Robert Rodriguez	56.0	2.040920	Action Crime Drama Romance Thriller	Carlos Gallardo	El Mariachi	52055	
	5037	Edward Burns	14.0	0.004584	Comedy Drama	Kerry Bishé	Newlyweds	1338	
	5042	Jon Gunn	43.0	0.085222	Documentary	John August	My Date with Drew	4285	

3856 rows × 16 columns

In [403... movies.groupby(['genre\_1','genre\_2']).gross.mean().sort\_values(ascending=False).head(5)

```
Out[403]: genre_1 genre_2
Family Sci-Fi 434.949459
Adventure Sci-Fi 228.627758
Family 118.919540
Animation 116.998550
Action Adventure 109.595465
Name: gross, dtype: float64
```

#### Finding the critic-favourite and audience-favourite actors.

```
In [404... Meryl_Streep = movies[movies['actor_1_name']=='Meryl Streep']
    Leo_Caprio = movies[movies['actor_1_name']=='Leonardo DiCaprio']
    Brad_Pitt = movies[movies['actor_1_name']=='Brad Pitt']

In [405... Combined = Meryl_Streep.append([Leo_Caprio,Brad_Pitt])
    Combined

C:\Users\HP\AppData\Local\Temp\ipykernel_14236\3117084833.py:1: FutureWarning: The frame.append method is deprecated and will be removed from pandas in a future version. Use pandas.concat instead.
    Combined = Meryl_Streep.append([Leo_Caprio,Brad_Pitt])
```

Out[405]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_use
	410	Nancy Meyers	187.0	112.703470	Comedy Drama Romance	Meryl Streep	lt's Complicated	6986
	1106	Curtis Hanson	42.0	46.815748	Action Adventure Crime Thriller	Meryl Streep	The River Wild	3254
	1204	Nora Ephron	252.0	94.125426	Biography Drama Romance	Meryl Streep	Julie & Julia	7926
	1408	David Frankel	208.0	124.732962	Comedy Drama Romance	Meryl Streep	The Devil Wears Prada	28617
	1483	Robert Redford	227.0	14.998070	Drama Thriller War	Meryl Streep	Lions for Lambs	4117
	1575	Sydney Pollack	66.0	87.100000	Biography Drama Romance	Meryl Streep	Out of Africa	5233
	1618	David Frankel	234.0	63.536011	Comedy Drama Romance	Meryl Streep	Hope Springs	342!
	1674	Carl Franklin	64.0	23.209440	Drama	Meryl Streep	One True Thing	928
	1925	Stephen Daldry	174.0	41.597830	Drama Romance	Meryl Streep	The Hours	10212
	2781	Phyllida Lloyd	331.0	29.959436	Biography Drama History	Meryl Streep	The Iron Lady	8232
	3135	Robert Altman	211.0	20.338609	Comedy Drama Music	Meryl Streep	A Prairie Home Companion	196!
	26	James Cameron	315.0	658.672302	Drama Romance	Leonardo DiCaprio	Titanic	7930!
	50	Baz Luhrmann	490.0	144.812796	Drama Romance	Leonardo DiCaprio	The Great Gatsby	3629 <sup>-</sup>
	97	Christopher Nolan	642.0	292.568851	Action Adventure Sci-Fi Thriller	Leonardo DiCaprio	Inception	146820
	179	Alejandro G. Iñárritu	556.0	183.635922	Adventure Drama Thriller Western	Leonardo DiCaprio	The Revenant	40602
	257	Martin Scorsese	267.0	102.608827	Biography Drama	Leonardo DiCaprio	The Aviator	2643

	director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_use
296	Quentin Tarantino	765.0	162.804648	Drama Western	Leonardo DiCaprio	Django Unchained	95517
307	Edward Zwick	166.0	57.366262	Adventure Drama Thriller	Leonardo DiCaprio	Blood Diamond	40029
308	Martin Scorsese	606.0	116.866727	Biography Comedy Crime Drama	Leonardo DiCaprio	The Wolf of Wall Street	7805{
326	Martin Scorsese	233.0	77.679638	Crime Drama	Leonardo DiCaprio	Gangs of New York	3140
361	Martin Scorsese	352.0	132.373442	Crime Drama Thriller	Leonardo DiCaprio	The Departed	87364
452	Martin Scorsese	490.0	127.968405	Mystery Thriller	Leonardo DiCaprio	Shutter Island	78609
641	Ridley Scott	238.0	39.380442	Action Drama Thriller	Leonardo DiCaprio	Body of Lies	17424
911	Steven Spielberg	194.0	164.435221	Biography Crime Drama	Leonardo DiCaprio	Catch Me If You Can	5258(
990	Danny Boyle	118.0	39.778599	Adventure Drama Thriller	Leonardo DiCaprio	The Beach	1761(
1114	Sam Mendes	323.0	22.877808	Drama Romance	Leonardo DiCaprio	Revolutionary Road	15259
1422	Randall Wallace	83.0	56.876365	Action Adventure	Leonardo DiCaprio	The Man in the Iron Mask	1252 <sup>-</sup>
1453	Clint Eastwood	392.0	37.304950	Biography Crime Drama	Leonardo DiCaprio	J. Edgar	10272
1560	Sam Raimi	63.0	18.636537	Action Thriller Western	Leonardo DiCaprio	The Quick and the Dead	6919
2067	Jerry Zaks	45.0	12.782508	Drama	Leonardo DiCaprio	Marvin's Room	2016
2757	Baz Luhrmann	106.0	46.338728	Drama Romance	Leonardo DiCaprio	Romeo + Juliet	1677!

	director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_use
3476	Baz Luhrmann	490.0	144.812796	Drama Romance	Leonardo DiCaprio	The Great Gatsby	3629:
101	David Fincher	362.0	127.490802	Drama Fantasy Romance	Brad Pitt	The Curious Case of Benjamin Button	4593 <sub>4</sub>
147	Wolfgang Petersen	220.0	133.228348	Adventure	Brad Pitt	Troy	38167
254	Steven Soderbergh	198.0	125.531634	Crime Thriller	Brad Pitt	Ocean's Twelve	2848!
255	Doug Liman	233.0	186.336103	Action Comedy Crime Romance Thriller	Brad Pitt	Mr. & Mrs. Smith	34886
382	Tony Scott	142.0	0.026871	Action Crime Thriller	Brad Pitt	Spy Game	1212!
400	Steven Soderbergh	186.0	183.405771	Crime Thriller	Brad Pitt	Ocean's Eleven	40264
470	David Ayer	406.0	85.707116	Action Drama War	Brad Pitt	Fury	30318
611	Jean-Jacques Annaud	76.0	37.901509	Adventure   Biography   Drama   History   War	Brad Pitt	Seven Years in Tibet	9638
683	David Fincher	315.0	37.023395	Drama	Brad Pitt	Fight Club	13474(
792	Patrick Gilmore	98.0	26.288320	Adventure Animation Comedy Drama Family Fantas	Brad Pitt	Sinbad: Legend of the Seven Seas	3614
940	Neil Jordan	120.0	105.264608	Drama Fantasy Horror	Brad Pitt	Interview with the Vampire: The Vampire Chroni	2397!
1490	Terrence Malick	584.0	13.303319	Drama Fantasy	Brad Pitt	The Tree of Life	13636

num_voted_use	movie_title	actor_1_name	genres	gross	num_critic_for_reviews	director_name	
1361(	The Assassination of Jesse James by the Coward	Brad Pitt	Biography Crime Drama History Western	3.904982	273.0	Andrew Dominik	'22
24379	Babel	Brad Pitt	Drama	34.300771	285.0	Alejandro G. Iñárritu	204
797	By the Sea	Brad Pitt	Drama Romance	0.531009	131.0	Angelina Jolie Pitt	
	Killing Them Softly	Brad Pitt	Crime Thriller	14.938570	414.0	Andrew Dominik	2
16349	True Romance	Brad Pitt	Action Crime Drama Romance Thriller	12.281500	122.0	Tony Scott	8
•							
			reviews.mean()	ritic_for_	Combined.groupby('actor_1_name').num_		
					actor_1_name Brad Pitt 245.000000 Leonardo DiCaprio 330.190476 Meryl Streep 181.454545		

In [407... Combined

Name: num\_critic\_for\_reviews, dtype: float64

Out[407]:		director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_use
	410	Nancy Meyers	187.0	112.703470	Comedy Drama Romance	Meryl Streep	lt's Complicated	6986
	1106	Curtis Hanson	42.0	46.815748	Action Adventure Crime Thriller	Meryl Streep	The River Wild	3254
	1204	Nora Ephron	252.0	94.125426	Biography Drama Romance	Meryl Streep	Julie & Julia	7926
	1408	David Frankel	208.0	124.732962	Comedy Drama Romance	Meryl Streep	The Devil Wears Prada	28617
	1483	Robert Redford	227.0	14.998070	Drama Thriller War	Meryl Streep	Lions for Lambs	4117
	1575	Sydney Pollack	66.0	87.100000	Biography Drama Romance	Meryl Streep	Out of Africa	5233
	1618	David Frankel	234.0	63.536011	Comedy Drama Romance	Meryl Streep	Hope Springs	342!
	1674	Carl Franklin	64.0	23.209440	Drama	Meryl Streep	One True Thing	928
	1925	Stephen Daldry	174.0	41.597830	Drama Romance	Meryl Streep	The Hours	10212
	2781	Phyllida Lloyd	331.0	29.959436	Biography Drama History	Meryl Streep	The Iron Lady	8232
	3135	Robert Altman	211.0	20.338609	Comedy Drama Music	Meryl Streep	A Prairie Home Companion	196!
	26	James Cameron	315.0	658.672302	Drama Romance	Leonardo DiCaprio	Titanic	7930!
	50	Baz Luhrmann	490.0	144.812796	Drama Romance	Leonardo DiCaprio	The Great Gatsby	3629 <sup>-</sup>
	97	Christopher Nolan	642.0	292.568851	Action Adventure Sci-Fi Thriller	Leonardo DiCaprio	Inception	14682(
	179	Alejandro G. Iñárritu	556.0	183.635922	Adventure Drama Thriller Western	Leonardo DiCaprio	The Revenant	40602
	257	Martin Scorsese	267.0	102.608827	Biography Drama	Leonardo DiCaprio	The Aviator	2643 <sup>-</sup>

	director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_use
296	Quentin Tarantino	765.0	162.804648	Drama Western	Leonardo DiCaprio	Django Unchained	95517
307	Edward Zwick	166.0	57.366262	Adventure Drama Thriller	Leonardo DiCaprio	Blood Diamond	40029
308	Martin Scorsese	606.0	116.866727	Biography Comedy Crime Drama	Leonardo DiCaprio	The Wolf of Wall Street	7805{
326	Martin Scorsese	233.0	77.679638	Crime Drama	Leonardo DiCaprio	Gangs of New York	31403
361	Martin Scorsese	352.0	132.373442	Crime Drama Thriller	Leonardo DiCaprio	The Departed	87364
452	Martin Scorsese	490.0	127.968405	Mystery Thriller	Leonardo DiCaprio	Shutter Island	78609
641	Ridley Scott	238.0	39.380442	Action Drama Thriller	Leonardo DiCaprio	Body of Lies	17424
911	Steven Spielberg	194.0	164.435221	Biography Crime Drama	Leonardo DiCaprio	Catch Me If You Can	5258(
990	Danny Boyle	118.0	39.778599	Adventure Drama Thriller	Leonardo DiCaprio	The Beach	1761(
1114	Sam Mendes	323.0	22.877808	Drama Romance	Leonardo DiCaprio	Revolutionary Road	15259
1422	Randall Wallace	83.0	56.876365	Action Adventure	Leonardo DiCaprio	The Man in the Iron Mask	1252
1453	Clint Eastwood	392.0	37.304950	Biography Crime Drama	Leonardo DiCaprio	J. Edgar	10272
1560	Sam Raimi	63.0	18.636537	Action Thriller Western	Leonardo DiCaprio	The Quick and the Dead	6919
2067	Jerry Zaks	45.0	12.782508	Drama	Leonardo DiCaprio	Marvin's Room	2016
2757	Baz Luhrmann	106.0	46.338728	Drama Romance	Leonardo DiCaprio	Romeo + Juliet	1677!

	director_name	num_critic_for_reviews	gross	genres	actor_1_name	movie_title	num_voted_use
3476	Baz Luhrmann	490.0	144.812796	Drama Romance	Leonardo DiCaprio	The Great Gatsby	36293
101	David Fincher	362.0	127.490802	Drama Fantasy Romance	Brad Pitt	The Curious Case of Benjamin Button	45934
147	Wolfgang Petersen	220.0	133.228348	Adventure	Brad Pitt	Troy	38167
254	Steven Soderbergh	198.0	125.531634	Crime Thriller	Brad Pitt	Ocean's Twelve	2848!
255	Doug Liman	233.0	186.336103	Action Comedy Crime Romance Thriller	Brad Pitt	Mr. & Mrs. Smith	34886
382	Tony Scott	142.0	0.026871	Action Crime Thriller	Brad Pitt	Spy Game	1212!
400	Steven Soderbergh	186.0	183.405771	Crime Thriller	Brad Pitt	Ocean's Eleven	40264
470	David Ayer	406.0	85.707116	Action Drama War	Brad Pitt	Fury	30318
611	Jean-Jacques Annaud	76.0	37.901509	Adventure   Biography   Drama   History   War	Brad Pitt	Seven Years in Tibet	9638
683	David Fincher	315.0	37.023395	Drama	Brad Pitt	Fight Club	13474(
792	Patrick Gilmore	98.0	26.288320	Adventure   Animation   Comedy   Drama   Family   Fantas	Brad Pitt	Sinbad: Legend of the Seven Seas	3614
940	Neil Jordan	120.0	105.264608	Drama Fantasy Horror	Brad Pitt	Interview with the Vampire: The Vampire Chroni	2397!
1490	Terrence Malick	584.0	13.303319	Drama Fantasy	Brad Pitt	The Tree of Life	13636

Andrew Dominik andro G. Iñárritu	273.0 285.0	3.904982 34.300771	Biography Crime Drama History Western Drama	Brad Pitt Brad Pitt	The Assassination of Jesse James by the Coward	13610 24379
Iñárritu	285.0	34.300771	Drama	Brad Pitt	Babel	24379
ina Iolia						
ina Jolie Pitt	131.0	0.531009	Drama Romance	Brad Pitt	By the Sea	797
Andrew Dominik	414.0	14.938570	Crime Thriller	Brad Pitt	Killing Them Softly	11162
ny Scott	122.0	12.281500	Action Crime Drama Romance Thriller	Brad Pitt	True Romance	16349
						•
	Dominik ny Scott	Dominik 414.0  ny Scott 122.0	Dominik 414.0 14.938570  ny Scott 122.0 12.281500	Dominik 414.0 14.938570 Crime Thriller	Dominik  414.0 14.938570 Crime Thriller Brad Pitt  Pominik  122.0 12.281500 Action Crime Drama Romance Thriller Brad Pitt	Dominik  414.0 14.938570 Crime Thriller Brad Pitt Softly  Softly  True  Romance  Romance

In [408... Combined.num\_user\_for\_reviews = Combined.num\_user\_for\_reviews.astype('int')
Combined.num\_user\_for\_reviews

Out[408]:	410	214
	1106	69
	1204	277
	1408	631
	1483	298
	1575	200
	1618	178
	1674	112
	1925	660
	2781	350
	3135	280
	26	2528
	50	753
	97	2803
	179	1188
	257	799
	296	1193
	307	657
	308	1138
	326	1166
	361	2054
	452	964
	641	263
	911	667
	990	548
	1114	414
	1422	244
	1453	279
	1560	216
	2067	71
	2757	506
	3476	753
	101	822
	147	1694
	254	627
	255	798
	382	361
	400	845
	470	701
	611	119

```
683
                   2968
           792
                     91
           940
                    406
           1490
                    975
           1722
                    415
           2204
                    908
           2333
                    61
           2682
                    369
           2898
                    460
          Name: num user for reviews, dtype: int32
 In [409... Combined.groupby('actor_1_name').num_user_for_reviews.mean()
Out[409]: actor_1_name
           Brad Pitt
                                742.352941
          Leonardo DiCaprio
                                914.476190
          Meryl Streep
                                297.181818
          Name: num_user_for_reviews, dtype: float64
 In [410... Combined.groupby('actor_1_name')[['num_critic_for_reviews', 'num_user_for_reviews']].mean()
Out[410]:
                            num critic for reviews num user for reviews
```

#### actor 1 name

Brad Pitt	245.000000	742.352941
Leonardo DiCaprio	330.190476	914.476190
Mervl Streep	181.454545	297.181818