

# MOVIES

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```
library(tidyverse)
```

```
## -- Attaching packages -----  
  
## v ggplot2 3.3.3      v purrr  0.3.4  
## v tibble  3.0.3      v dplyr  1.0.1  
## v tidyr   1.1.1      v stringr 1.4.0  
## v readr   1.3.1      v forcats 0.5.0  
  
## -- Conflicts -----  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()    masks stats::lag()
```

```
library(ggplot2) # visualization  
library(ggrepel)  
library(ggthemes) # visualization  
library(scales) # visualization
```

```
##  
## Attaching package: 'scales'  
  
## The following object is masked from 'package:purrr':  
##  
##      discard  
  
## The following object is masked from 'package:readr':  
##  
##      col_factor
```

```
library(dplyr) # data manipulation  
library(data.table)
```

```
##  
## Attaching package: 'data.table'  
  
## The following objects are masked from 'package:dplyr':  
##  
##      between, first, last
```

```
## The following object is masked from 'package:purrr':  
##  
##     transpose
```

```
library(formattable)
```

```
##  
## Attaching package: 'formattable'  
  
## The following objects are masked from 'package:scales':  
##  
##     comma, percent, scientific
```

```
library(plotly)
```

```
##  
## Attaching package: 'plotly'  
  
## The following object is masked from 'package:formattable':  
##  
##     style  
  
## The following object is masked from 'package:ggplot2':  
##  
##     last_plot  
  
## The following object is masked from 'package:stats':  
##  
##     filter  
  
## The following object is masked from 'package:graphics':  
##  
##     layout
```

```
library(GGally)
```

```
## Registered S3 method overwritten by 'GGally':  
##   method from  
##   +.gg      ggplot2
```

```
library(caret)
```

```
## Loading required package: lattice  
  
##  
## Attaching package: 'caret'  
  
## The following object is masked from 'package:purrr':  
##  
##     lift
```

```
library(corrplot)
```

```
## corrplot 0.84 loaded
```

```
library(dplyr)
library(assertive)
```

```
##
```

```
## Attaching package: 'assertive'
```

```
## The following objects are masked from 'package:purrr':
```

```
##
```

```
##      is_atomic, is_character, is_double, is_empty, is_formula,
##      is_function, is_integer, is_list, is_logical, is_null, is_numeric,
##      is_vector
```

```
## The following object is masked from 'package:tibble':
```

```
##
```

```
##      has_rownames
```

```
library(lubridate)
```

```
##
```

```
## Attaching package: 'lubridate'
```

```
## The following objects are masked from 'package:data.table':
```

```
##
```

```
##      hour, isoweek, mday, minute, month, quarter, second, wday, week,
##      yday, year
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      date, intersect, setdiff, union
```

```
library(gridExtra)
```

```
##
```

```
## Attaching package: 'gridExtra'
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
##      combine
```

```
load("/Users/arunasingh/Downloads/Projects/UC/Data Science/DAM/moviedataset.RData")
write.csv(movies, file="/Users/arunasingh/Downloads/Projects/UC/Data Science/DAM/moviedataset.csv")
movie <- read.csv("/Users/arunasingh/Downloads/Projects/UC/Data Science/DAM/moviedataset.csv")
summary(movie)
```

```

##           X           title           title_type           genre
## Min.      : 1.0   Length:651   Length:651   Length:651
## 1st Qu.:163.5   Class :character   Class :character   Class :character
## Median :326.0   Mode  :character   Mode  :character   Mode  :character
## Mean      :326.0
## 3rd Qu.:488.5
## Max.      :651.0
##
## runtime      mpaa_rating      studio      thtr_rel_year
## Min.      : 39.0   Length:651   Length:651   Min.      :1970
## 1st Qu.: 92.0   Class :character   Class :character   1st Qu.:1990
## Median :103.0   Mode  :character   Mode  :character   Median :2000
## Mean      :105.8
## 3rd Qu.:115.8
## Max.      :267.0
## NA's      :1
## thtr_rel_month  thtr_rel_day  dvd_rel_year  dvd_rel_month
## Min.      : 1.00   Min.      : 1.00   Min.      :1991   Min.      : 1.000
## 1st Qu.: 4.00   1st Qu.: 7.00   1st Qu.:2001   1st Qu.: 3.000
## Median : 7.00   Median :15.00   Median :2004   Median : 6.000
## Mean      : 6.74   Mean      :14.42   Mean      :2004   Mean      : 6.333
## 3rd Qu.:10.00   3rd Qu.:21.00   3rd Qu.:2008   3rd Qu.: 9.000
## Max.      :12.00   Max.      :31.00   Max.      :2015   Max.      :12.000
## NA's      :8
## dvd_rel_day      imdb_rating      imdb_num_votes      critics_rating
## Min.      : 1.00   Min.      :1.900   Min.      : 180   Length:651
## 1st Qu.: 7.00   1st Qu.:5.900   1st Qu.: 4546   Class :character
## Median :15.00   Median :6.600   Median : 15116   Mode  :character
## Mean      :15.01   Mean      :6.493   Mean      : 57533
## 3rd Qu.:23.00   3rd Qu.:7.300   3rd Qu.: 58300
## Max.      :31.00   Max.      :9.000   Max.      :893008
## NA's      :8
## critics_score      audience_rating      audience_score      best_pic_nom
## Min.      : 1.00   Length:651   Min.      :11.00   Length:651
## 1st Qu.: 33.00   Class :character   1st Qu.:46.00   Class :character
## Median : 61.00   Mode  :character   Median :65.00   Mode  :character
## Mean      : 57.69
## 3rd Qu.: 83.00
## Max.      :100.00
## NA's      :8
## best_pic_win      best_actor_win      best_actress_win      best_dir_win
## Length:651   Length:651   Length:651   Length:651
## Class :character   Class :character   Class :character   Class :character
## Mode  :character   Mode  :character   Mode  :character   Mode  :character
##
##
##
## top200_box      director      actor1      actor2
## Length:651   Length:651   Length:651   Length:651
## Class :character   Class :character   Class :character   Class :character
## Mode  :character   Mode  :character   Mode  :character   Mode  :character
##
##

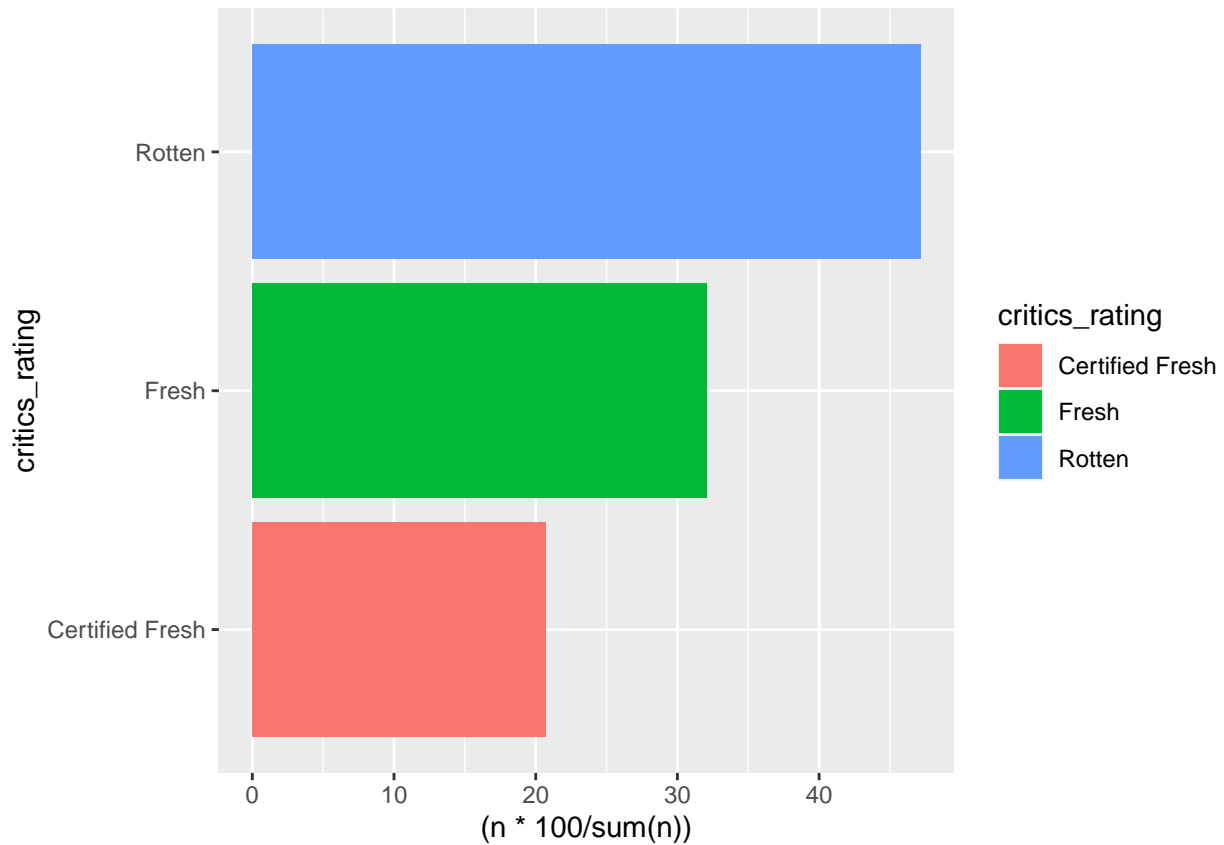
```

```
##
##
##      actor3          actor4          actor5          imdb_url
## Length:651      Length:651      Length:651      Length:651
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##      rt_url
## Length:651
## Class :character
## Mode  :character
##
##
##
##
```

## Number of movies based on critics rating

```
df <- movie %>%
  count(critics_rating) %>%
  arrange(desc(n))

ggplot(df, aes(x=(n*100/sum(n)) , y= critics_rating, fill = critics_rating)) +
  geom_bar(stat="identity")
```



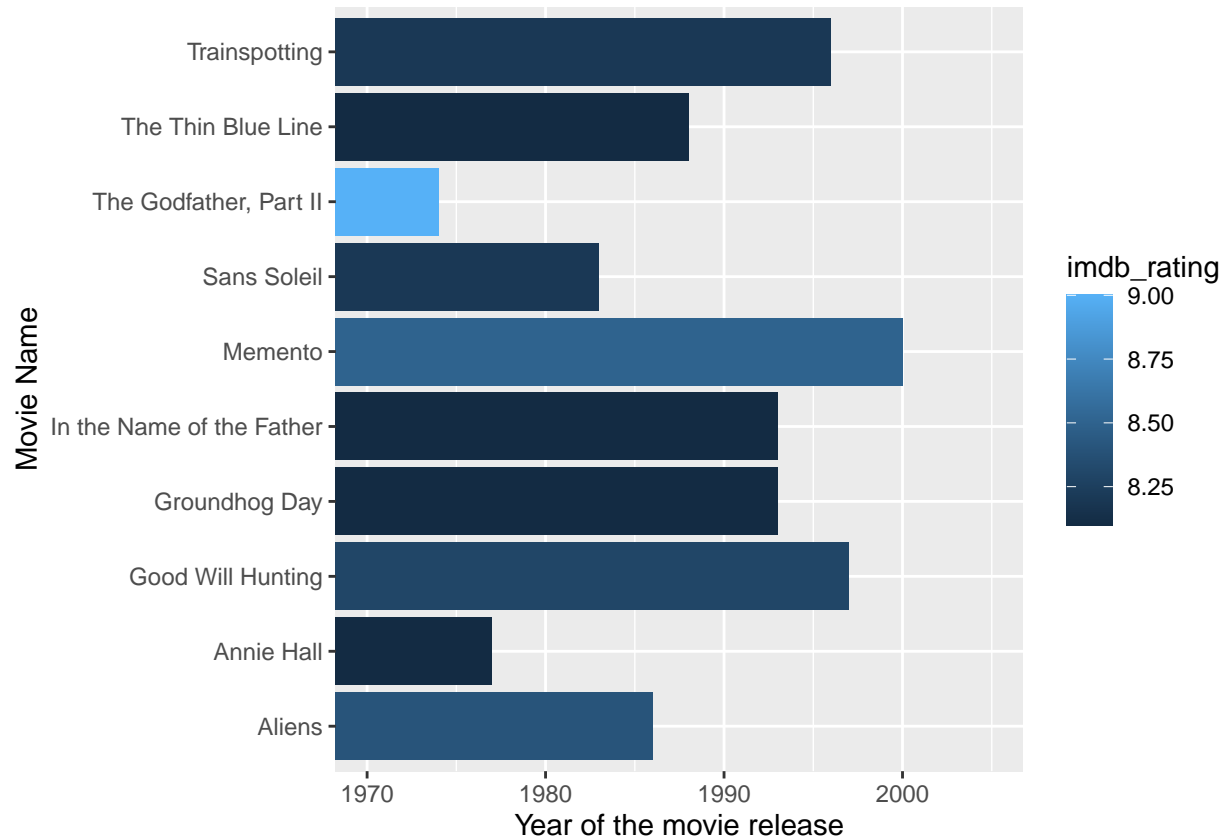
## Top movies at every year based on imdb\_rating

```
moviepoint <- distinct_all(movie %>%
  select(title, imdb_rating, thtr_rel_year) %>%
  filter(thtr_rel_year >= 1970 & thtr_rel_year <= 2000) %>%
  slice_max(imdb_rating, n = 10) %>%
  arrange(thtr_rel_year))
```

moviepoint

##	title	imdb_rating	thtr_rel_year
## 1	The Godfather, Part II	9.0	1974
## 2	Annie Hall	8.1	1977
## 3	Sans Soleil	8.2	1983
## 4	Aliens	8.4	1986
## 5	The Thin Blue Line	8.1	1988
## 6	Groundhog Day	8.1	1993
## 7	In the Name of the Father	8.1	1993
## 8	Trainspotting	8.2	1996
## 9	Good Will Hunting	8.3	1997
## 10	Memento	8.5	2000

```
moviepoint %>%
  ggplot(mapping= aes(x = thtr_rel_year, y = title, fill = imdb_rating)) +
  geom_bar(stat="identity") + xlab("Year of the movie release") +
  ylab("Movie Name") + coord_cartesian(xlim = c(1970, 2005))
```



## Best of rotten

```
movierotten <- distinct_all(movie %>%
  filter(critics_rating == 'Rotten') %>%
  select(title, imdb_rating, thtr_rel_year) %>%
  arrange(desc(imdb_rating)))
```

movierotten

##	title	imdb_rating	thtr_rel_year
## 1	The Ritz	7.8	1976
## 2	Seven Pounds	7.7	2008
## 3	Flipped	7.7	2010
## 4	Secondhand Lions	7.6	2003
## 5	Politiki Kouzina (A Touch of Spice)	7.6	2003
## 6	Robin Hood	7.6	1973
## 7	The Five Heartbeats	7.5	1991
## 8	Felon	7.5	2008

## 9	Kicking It	7.4	2008
## 10	Modigliani	7.4	2004
## 11	Savior	7.3	1998
## 12	Candy	7.3	2006
## 13	Lady Jane	7.2	1986
## 14	The Doors	7.2	1991
## 15	Same Time, Next Year	7.2	1978
## 16	Closet Land	7.2	1991
## 17	Cashback	7.2	2007
## 18	Mallrats	7.2	1995
## 19	Shooter	7.2	2007
## 20	Meet Joe Black	7.1	1998
## 21	Pay It Forward	7.1	2000
## 22	The Kingdom	7.1	2007
## 23	The Time Traveler's Wife	7.1	2009
## 24	What's Cooking?	7.1	2000
## 25	Fallen	7.0	1997
## 26	Lost and Delirious	7.0	2001
## 27	Valmont	7.0	1989
## 28	One Day	7.0	2011
## 29	Velvet Goldmine	7.0	1998
## 30	Top Gun	6.9	1986
## 31	The Devil's Rejects	6.9	2005
## 32	The Last Boy Scout	6.9	1991
## 33	The Football Factory	6.9	2004
## 34	Rise of the Footsoldier	6.9	2007
## 35	Zombi 2	6.9	1980
## 36	Heaven & Earth	6.8	1994
## 37	U-Turn	6.8	1997
## 38	Where the Heart Is	6.8	2000
## 39	Cypher	6.8	2002
## 40	The Man with the Golden Gun	6.8	1974
## 41	See No Evil, Hear No Evil	6.8	1989
## 42	Safe House	6.8	2012
## 43	Things to Do in Denver...When You're Dead	6.8	1995
## 44	The Lake House	6.8	2006
## 45	The White Countess	6.7	2005
## 46	Resident Evil	6.7	2002
## 47	Project X	6.7	2012
## 48	Oliver & Company	6.7	1988
## 49	Patch Adams	6.7	1998
## 50	The Ninth Gate	6.7	1999
## 51	Ice Age: Continental Drift	6.7	2012
## 52	Undertaking Betty	6.7	2003
## 53	Half Baked	6.7	1998
## 54	The Reckoning	6.6	2004
## 55	Breaking and Entering	6.6	2007
## 56	The Recruit	6.6	2003
## 57	Lethal Weapon 4	6.6	1998
## 58	The Interview	6.6	2014
## 59	Kick-Ass 2	6.6	2013
## 60	Hot Shots! Part Deux	6.6	1993
## 61	Underworld: The Rise of the Lycans	6.6	2009
## 62	The Safety of Objects	6.6	2001



## 63	Fast & Furious	6.6	2009
## 64	Alice in Wonderland	6.5	2010
## 65	Basic	6.5	2003
## 66	The Dream Team	6.5	1989
## 67	The Mothman Prophecies	6.5	2002
## 68	The Last Kiss	6.5	2006
## 69	A Good Woman	6.5	2006
## 70	Total Eclipse	6.5	1995
## 71	Down in the Valley	6.5	2006
## 72	Maniac	6.5	1980
## 73	Morning Glory	6.5	2010
## 74	Emperor	6.5	2013
## 75	Hereafter	6.5	2010
## 76	Electric Dreams	6.5	1984
## 77	Stolen Summer	6.5	2002
## 78	A Star is Born	6.5	1976
## 79	Swordfish	6.5	2001
## 80	Rio 2	6.4	2014
## 81	The Other Woman	6.4	2011
## 82	White House Down	6.4	2013
## 83	The Company You Keep	6.4	2013
## 84	The Raven	6.4	2012
## 85	The Sum of All Fears	6.4	2002
## 86	Bamboozled	6.4	2000
## 87	So I Married an Axe Murderer	6.4	1993
## 88	Star Trek: Insurrection	6.4	1998
## 89	The Other Sister	6.4	1999
## 90	What Women Want	6.4	2001
## 91	Funny Lady	6.4	1975
## 92	One Night With the King	6.3	2006
## 93	Space Jam	6.3	1996
## 94	North Sea Hijack (ffolkes) (Assault Force)	6.3	1980
## 95	Red Dawn	6.3	1984
## 96	The Human Stain	6.3	2003
## 97	Imagining Argentina	6.3	2004
## 98	I Spit On Your Grave	6.3	2010
## 99	The Astronaut Farmer	6.3	2006
## 100	The Little Rascals	6.3	1994
## 101	The Portrait of a Lady	6.3	1996
## 102	Formula 51	6.3	2002
## 103	Dark Skies	6.3	2013
## 104	Astro Boy (AstroBoy)	6.3	2009
## 105	Not Without My Daughter	6.2	1991
## 106	Rising Sun	6.2	1993
## 107	Proof of Life	6.2	2000
## 108	Dirty Sanchez: The Movie	6.2	2007
## 109	The Principal	6.2	1987
## 110	Two for the Money	6.2	2005
## 111	Cousins	6.2	1989
## 112	A Good Old Fashioned Orgy	6.2	2011
## 113	Osmosis Jones	6.2	2001
## 114	Every Which Way But Loose	6.2	1978
## 115	The Heavenly Kid	6.2	1985
## 116	Hoodlum	6.2	1997

## 117	Jennifer 8	6.2	1992
## 118	This is 40	6.2	2012
## 119	A Night at the Roxbury	6.2	1998
## 120	Sleepwalking	6.2	2008
## 121	Kaena: The Prophecy	6.2	2004
## 122	Cecil B. Demented	6.2	2000
## 123	Bootmen	6.2	2000
## 124	Mirrors	6.2	2008
## 125	Just Friends	6.2	2005
## 126	Taking Lives	6.2	2004
## 127	Three Wishes	6.1	1995
## 128	Deep Impact	6.1	1998
## 129	Where the Heart Is	6.1	1990
## 130	Lockout (Unrated)	6.1	2012
## 131	The Pit and the Pendulum	6.1	1991
## 132	Shall We Dance	6.1	2004
## 133	One Night at McCool's	6.1	2001
## 134	Simone	6.1	2002
## 135	Maniac	6.1	2013
## 136	Desperate Measures	6.1	1997
## 137	Then She Found Me	6.0	2007
## 138	The Golden Bowl	6.0	2000
## 139	Texasville	6.0	1991
## 140	Streets of Gold	6.0	1986
## 141	Kindergarten Cop	6.0	1990
## 142	Snow Flower And The Secret Fan	6.0	2011
## 143	The Last Remake of Beau Geste	6.0	1977
## 144	House of 1000 Corpses	6.0	2003
## 145	To The Wonder	6.0	2013
## 146	Article 99	6.0	1992
## 147	School for Scoundrels	5.9	2006
## 148	Silent Fall	5.9	1994
## 149	Easy	5.9	2004
## 150	Percy Jackson: Sea of Monsters	5.9	2013
## 151	Prison	5.9	1988
## 152	Terror Train	5.9	1980
## 153	Married to It	5.9	1993
## 154	The Darwin Awards	5.9	2006
## 155	At First Sight	5.9	1999
## 156	200 Cigarettes	5.9	1999
## 157	The Captive	5.9	2014
## 158	Curdled	5.9	1996
## 159	First Knight	5.9	1995
## 160	Dream House	5.9	2011
## 161	1941	5.9	1979
## 162	Guess Who	5.9	2005
## 163	The Groove Tube	5.9	1974
## 164	Waist Deep	5.9	2006
## 165	The Postman	5.9	1997
## 166	Bridget Jones - The Edge of Reason	5.9	2004
## 167	Snake Eyes	5.9	1998
## 168	Medicine Man	5.9	1992
## 169	The Invasion	5.9	2007
## 170	Death Defying Acts	5.9	2008

## 171	Striking Distance	5.8	1993
## 172	Made of Honor	5.8	2008
## 173	Clownhouse	5.8	1989
## 174	Aspen Extreme	5.8	1993
## 175	The Evening Star	5.8	1996
## 176	The Main Event	5.8	1979
## 177	Brighton Rock	5.8	2011
## 178	The Distinguished Gentleman	5.8	1992
## 179	Punchline	5.8	1988
## 180	Around the World in 80 Days	5.8	2004
## 181	Robocop 2	5.7	1990
## 182	Blame It on Rio	5.7	1984
## 183	A New Life	5.7	1988
## 184	The Shaggy D.A.	5.7	1976
## 185	Bounce	5.7	2000
## 186	Caveman	5.7	1981
## 187	A Stranger Among Us	5.7	1992
## 188	The Slumber Party Massacre	5.7	1982
## 189	Alaska	5.7	1996
## 190	Mr. Jones	5.7	1993
## 191	Sgt. Bilko	5.7	1996
## 192	The Jazz Singer	5.7	1980
## 193	The Perfect Score	5.7	2004
## 194	Jaws 2	5.7	1978
## 195	Condorman	5.7	1981
## 196	Bait	5.7	2000
## 197	101 Dalmatians	5.6	1996
## 198	Fantastic Four: Rise of the Silver Surfer	5.6	2007
## 199	Orca - The Killer Whale	5.6	1977
## 200	Failure to Launch	5.6	2006
## 201	No Mercy	5.6	1986
## 202	House on Haunted Hill	5.6	1999
## 203	National Security	5.6	2003
## 204	New In Town	5.6	2009
## 205	The Ex	5.6	2007
## 206	Fool's Gold	5.6	2008
## 207	Filly Brown	5.5	2013
## 208	Mad Dog Time	5.5	1996
## 209	Three of Hearts	5.5	1993
## 210	The Tortured	5.5	2012
## 211	Waking Up in Reno	5.5	2002
## 212	Riders (Steal)	5.5	2002
## 213	Nomads	5.5	1986
## 214	The Omen	5.5	2006
## 215	Ghost Ship	5.5	2002
## 216	Showtime	5.5	2002
## 217	In Dreams	5.5	1999
## 218	The Guru	5.4	2002
## 219	Star Trek V - The Final Frontier	5.4	1989
## 220	The Bad News Bears in Breaking Training	5.4	1977
## 221	Volcano	5.4	1997
## 222	Boomerang	5.4	1992
## 223	Mother's Boys	5.4	1993
## 224	Lola Versus	5.4	2012

## 225	Amityville II: The Possession	5.4	1982
## 226	Oh, God! You Devil	5.3	1984
## 227	Strictly Business	5.3	1991
## 228	Sleepover	5.3	2004
## 229	The Brothers Solomon	5.3	2007
## 230	Hollywood Homicide	5.3	2003
## 231	Tim and Eric's Billion Dollar Movie	5.3	2012
## 232	The Butcher's Wife	5.3	1991
## 233	Inbred	5.3	2011
## 234	Turistas (Paradise Lost)	5.3	2006
## 235	Mixed Nuts	5.3	1994
## 236	Alvin and the Chipmunks	5.3	2007
## 237	Apollo 18	5.2	2011
## 238	Tank Girl	5.2	1995
## 239	8 Heads in a Duffel Bag	5.2	1997
## 240	Welcome to Mooseport	5.2	2004
## 241	Cocoon: The Return	5.2	1988
## 242	Malevolence	5.1	2004
## 243	Held Up	5.1	2000
## 244	The Longshots	5.1	2008
## 245	Leatherface: The Texas Chainsaw Massacre III	5.1	1990
## 246	Jade	5.1	1995
## 247	Good Boy!	5.1	2003
## 248	Dog Park	5.1	1998
## 249	Malibu's Most Wanted	5.1	2003
## 250	Pootie Tang	5.1	2001
## 251	Oh, God! Book II	5.1	1980
## 252	My Girl 2	5.1	1996
## 253	Hellraiser - Bloodline	5.0	1996
## 254	Fire Down Below	4.9	1997
## 255	Meteor	4.9	1979
## 256	Revenge of the Nerds II: Nerds in Paradise	4.9	1987
## 257	Deck the Halls	4.9	2006
## 258	Cold Creek Manor	4.9	2003
## 259	Operation Dumbo Drop	4.9	1995
## 260	Man of the House	4.9	1995
## 261	Hell's Kitchen N.Y.C.	4.9	1999
## 262	Crocodile Dundee in Los Angeles	4.8	2001
## 263	Van Wilder: The Rise of Taj (Van Wilder 2)	4.8	2006
## 264	V.I. Warshawski	4.8	1991
## 265	New York Minute	4.8	2004
## 266	A Haunted House 2	4.7	2014
## 267	Porky's Revenge	4.6	1985
## 268	My Baby's Daddy	4.5	2004
## 269	The Squeeze	4.5	1987
## 270	Vampire in Brooklyn	4.5	1995
## 271	Agent Cody Banks 2: Destination London	4.5	2004
## 272	Code Name: The Cleaner	4.5	2007
## 273	The Jerky Boys	4.5	1995
## 274	Jason X	4.4	2002
## 275	Alvin and the Chipmunks: Chipwrecked	4.4	2011
## 276	Major League: Back to the Minors	4.4	1998
## 277	Town & Country	4.3	2000
## 278	Ghost Rider: Spirit of Vengeance	4.3	2012

## 279	Body of Evidence	4.3	1992
## 280	The Legend of Hercules	4.2	2014
## 281	The Babysitter	4.2	1995
## 282	LOL	4.2	2012
## 283	The Comebacks	4.1	2007
## 284	The Mod Squad	4.1	1999
## 285	The Stupids	4.1	1996
## 286	Madea Goes to Jail	4.1	2009
## 287	Liz & Dick	4.1	2012
## 288	Cop & 1/2	3.8	1993
## 289	In the Name of the King: A Dungeon Siege Tale	3.8	2006
## 290	Attack of the 50 Foot Woman	3.8	1993
## 291	Woo	3.8	1998
## 292	Rhinestone	3.6	1984
## 293	Dragon Wars	3.6	2007
## 294	Bats	3.6	1999
## 295	The Room	3.5	2003
## 296	Dirty Love	3.5	2005
## 297	Dance Flick	3.5	2009
## 298	Jack and Jill	3.4	2011
## 299	Carnosaur	3.4	1993
## 300	Dumb and Dumberer: When Harry Met Lloyd	3.4	2003
## 301	Galaxina	3.4	1980
## 302	Teen Wolf Too	3.1	1987
## 303	Doogal	2.8	2006
## 304	Viva Knieval!	2.7	1977
## 305	Battlefield Earth	2.4	2000
## 306	Epic Movie	2.3	2007
## 307	Disaster Movie	1.9	2008

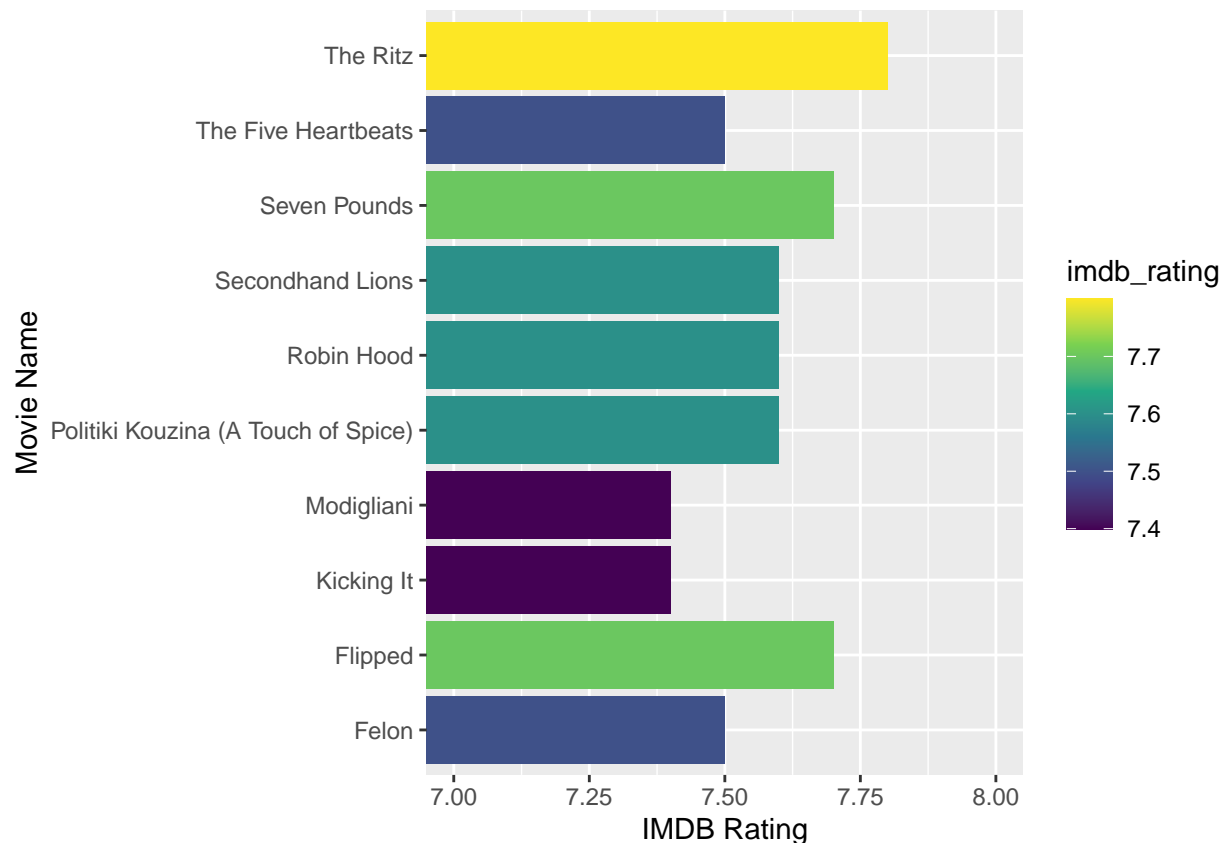
*## Total Number of Rotten Movies are 307*

```

movierotten_10 <- movierotten%>%
  slice_max(imdb_rating, n = 10)

movierotten_10 %>%
  ggplot(mapping= aes(x = imdb_rating, y = title, fill = imdb_rating)) +
  geom_bar(stat="identity") + xlab("IMDB Rating") +
  ylab("Movie Name") + coord_cartesian(xlim = c(7, 8)) +
  scale_fill_continuous(type = "viridis")

```



**Top 200 movies by critics rating then find no of movies with critic score 100**

and plot movie wrt audience score for CR 100

```
criticmov <- distinct_all(movie %>%
  select(title, critics_score, audience_score) %>%
  slice_max(critics_score, n = 200) %>%
  arrange(desc(critics_score)))
```

criticmov

```
##
## 1 title
## 2 The Thin Blue Line
## 3 Africa: The Serengeti
## 4 Sherman's March
## 5 Barbarosa
## 6 Bastard out of Carolina
## 7 Never Cry Wolf
## 8 Better This World
## 9 Nostalgia for the Light
## 10 Hotel Terminus: The Life and Times of Klaus Barbie
## 11 Man on Wire
## 12 Love and Death
## 13 Normal
## 14 Longtime Companion
```

## 14	Rambling Rose
## 15	Theremin: An Electronic Odyssey
## 16	Ghosts of Abu Ghraib
## 17	Sea Monsters: A Prehistoric Adventure
## 18	Teenage Paparazzo
## 19	The Unbelievable Truth
## 20	Aliens
## 21	Annie Hall
## 22	Let the Right One In
## 23	The Hurt Locker
## 24	Aguirre, der Zorn Gottes (Aguirre, the Wrath of God)
## 25	Mad Max 2: The Road Warrior
## 26	Croupier
## 27	Phil Ochs: There But For Fortune
## 28	Once
## 29	Bull Durham
## 30	The Godfather, Part II
## 31	Good Will Hunting
## 32	Sweet Sixteen
## 33	Hairspray
## 34	The Dish
## 35	Promises
## 36	Most Dangerous Man in America: Daniel Ellsberg and the Pentagon Papers
## 37	The Wedding Banquet (Xi yan)
## 38	Of Mice and Men
## 39	Groundhog Day
## 40	Missing
## 41	Cameraman: The Life And Work Of Jack Cardiff
## 42	Charlie: The Life and Art of Charles Chaplin
## 43	Phantom of the Paradise
## 44	49 Up
## 45	The Imposter
## 46	Crumb
## 47	Pete Seeger: The Power of Song
## 48	Pina
## 49	Lorenzo's Oil
## 50	In the Loop
## 51	Winter's Bone
## 52	Aladdin
## 53	Jonestown: The Life and Death of Peoples Temple
## 54	Into The Arms Of Strangers - Stories Of The Kindertransport
## 55	Planes, Trains and Automobiles
## 56	In the Name of the Father
## 57	The Sessions
## 58	The Freshman
## 59	Run Lola Run
## 60	Being John Malkovich
## 61	Speed
## 62	What Richard Did
## 63	Benda Bilili!
## 64	Glory
## 65	No Country for Old Men
## 66	Grizzly Man
## 67	The Tillman Story

## 68	Captain Phillips
## 69	The Gleaners and I
## 70	Imagine: John Lennon
## 71	The Brother from Another Planet
## 72	Pusher III: I'm the Angel of Death
## 73	Drive
## 74	The Host
## 75	Bound
## 76	Memento
## 77	Moonstruck
## 78	Sans Soleil
## 79	In Search of Beethoven
## 80	On Golden Pond
## 81	The Little Mermaid
## 82	Waiting for Guffman
## 83	Old Partner
## 84	Scandal
## 85	Locke
## 86	Hairspray
## 87	Rescue Dawn
## 88	Maurice
## 89	Tabloid
## 90	After Innocence
## 91	The Belly of an Architect
## 92	Diner
## 93	My Dinner with Andre
## 94	The Big Red One
## 95	Beauty Is Embarrassing
## 96	Serpico
## 97	The Color of Money
## 98	Cast Away
## 99	The Fighter
## 100	My Flesh and Blood
## 101	Ragtime
## 102	The Illusionist (L'illusionniste)
## 103	Capote
## 104	Superman II
## 105	What's Eating Gilbert Grape
## 106	Topsy-Turvy
## 107	The Return of the Pink Panther
## 108	Compliance
## 109	The King of Comedy
## 110	Trainspotting
## 111	Thieves Like Us
## 112	Over the Edge
## 113	The Trip
## 114	The Color Purple
## 115	Django Unchained
## 116	The Black Stallion
## 117	RoboCop
## 118	Blue Valentine
## 119	Get on the Bus
## 120	Saturday Night Fever
## 121	Under Fire



## 122	Titanic
## 123	F for Fake
## 124	Tarzan
## 125	28 Days Later
## 126	The Sure Thing
## 127	Control
## 128	Lassie
## 129	The Last Lions
## 130	Thunderheart
## 131	River's Edge
## 132	Saving Face
## 133	Citizen X
## 134	Bhutto
## 135	Winter Kills
## 136	Henry: Portrait of a Serial Killer
## 137	Death Line (Raw Meat)
## 138	Bright Leaves
## 139	Blind Spot: Hitler's Secretary
## 140	Santa Sangre
## 141	Bottle Rocket
## 142	An Ideal Husband
## 143	Hellboy II: The Golden Army (Hellboy 2)
## 144	Running on Empty
## 145	The Take
## 146	The Secret Garden
## 147	Jerry Maguire
## 148	Eye of the Needle
## 149	The English Patient
## 150	North Face (Nordwand)
## 151	Berberian Sound Studio
## 152	Beyond the Gates
## 153	Lethal Weapon
## 154	Kill Bill: Volume 2
## 155	George Washington
## 156	Saint of 9/11
## 157	The Hunger Games
## 158	The Snowtown Murders
## 159	One on One
## 160	Beverly Hills Cop
## 161	Your Sister's Sister
## 162	This Is the End
## 163	I Wanna Hold Your Hand
## 164	What About Bob?
## 165	The Postman Always Rings Twice
## 166	Warrior
## 167	Knightriders
## 168	Harry Potter and the Chamber of Secrets
## 169	Jagged Edge
## 170	Let It Be
## 171	The Disappearance of Alice Creed
## 172	Monster
## 173	The Gauntlet
## 174	Driving Miss Daisy
## 175	Happy, Texas

## 176		The Longest Yard
## 177		Me and You and Everyone We Know
## 178		The Whole Wide World
## 179		Countdown to Zero
## 180		Ray
## 181		The Age of Innocence
## 182		The Royal Tenenbaums
## 183		Mr. & Mrs. Bridge
## 184		The Story Of Luke
## 185		Waking Life
## 186		Young Adult
## 187		The End of America
## 188		Max Manus: Man of War
## 189		Inserts
## 190		21 Grams
## 191		While You Were Sleeping
## 192		Dance of the Dead
## 193		The Yes Men Fix the World
## 194		Rock 'n' Roll High School
## 195		Any Day Now
## 196		Grosse Pointe Blank
## 197		The Hangover
## 198		Flesh & Blood (Flesh+Blood) (The Rose and the Sword)
## 199		A Mighty Heart
## 200		Orwell Rolls in His Grave
## 201		Fair Game
## 202		Melancholia
## 203		Pooh's Heffalump Movie
## 204		The Funeral
##	critics_score	audience_score
## 1	100	90
## 2	100	74
## 3	100	86
## 4	100	74
## 5	100	83
## 6	100	85
## 7	100	80
## 8	100	84
## 9	100	73
## 10	100	87
## 11	100	90
## 12	100	75
## 13	100	82
## 14	100	51
## 15	100	72
## 16	100	91
## 17	100	68
## 18	100	94
## 19	100	89
## 20	98	94
## 21	98	93
## 22	98	90
## 23	98	84
## 24	98	91

## 25	98	85
## 26	98	80
## 27	97	78
## 28	97	91
## 29	97	83
## 30	97	97
## 31	97	94
## 32	97	87
## 33	97	80
## 34	96	81
## 35	96	96
## 36	96	89
## 37	96	87
## 38	96	82
## 39	96	87
## 40	96	85
## 41	96	92
## 42	95	90
## 43	95	84
## 44	95	86
## 45	95	78
## 46	95	89
## 47	95	92
## 48	95	81
## 49	94	79
## 50	94	81
## 51	94	76
## 52	94	92
## 53	94	88
## 54	94	85
## 55	94	87
## 56	94	95
## 57	93	80
## 58	93	61
## 59	93	90
## 60	93	87
## 61	93	76
## 62	93	62
## 63	93	82
## 64	93	93
## 65	93	86
## 66	93	85
## 67	93	91
## 68	93	89
## 69	92	86
## 70	92	91
## 71	92	76
## 72	92	81
## 73	92	79
## 74	92	72
## 75	92	82
## 76	92	94
## 77	92	81
## 78	92	88

## 79	92	77
## 80	92	87
## 81	92	88
## 82	91	91
## 83	91	86
## 84	91	61
## 85	91	71
## 86	91	85
## 87	91	74
## 88	91	87
## 89	91	72
## 90	91	81
## 91	91	80
## 92	91	78
## 93	91	86
## 94	91	78
## 95	90	89
## 96	90	88
## 97	90	73
## 98	90	83
## 99	90	89
## 100	90	93
## 101	90	76
## 102	90	79
## 103	90	81
## 104	89	75
## 105	89	89
## 106	89	79
## 107	89	82
## 108	89	60
## 109	89	89
## 110	89	93
## 111	89	71
## 112	89	86
## 113	89	70
## 114	88	94
## 115	88	91
## 116	88	83
## 117	88	83
## 118	88	77
## 119	88	71
## 120	88	71
## 121	88	68
## 122	88	69
## 123	88	89
## 124	88	74
## 125	87	85
## 126	87	79
## 127	87	89
## 128	87	56
## 129	87	89
## 130	87	75
## 131	87	76
## 132	87	88

## 133	86	86
## 134	86	88
## 135	86	51
## 136	86	71
## 137	86	44
## 138	86	71
## 139	85	70
## 140	85	87
## 141	85	80
## 142	85	69
## 143	85	71
## 144	85	68
## 145	85	49
## 146	85	80
## 147	85	79
## 148	85	72
## 149	84	83
## 150	84	82
## 151	84	54
## 152	84	85
## 153	84	85
## 154	84	89
## 155	84	85
## 156	84	79
## 157	84	81
## 158	83	66
## 159	83	75
## 160	83	81
## 161	83	66
## 162	83	71
## 163	83	76
## 164	83	79
## 165	83	59
## 166	82	92
## 167	82	61
## 168	82	79
## 169	82	58
## 170	82	87
## 171	82	67
## 172	82	81
## 173	82	54
## 174	81	81
## 175	81	54
## 176	81	75
## 177	81	84
## 178	81	72
## 179	81	72
## 180	81	87
## 181	80	76
## 182	80	89
## 183	80	42
## 184	80	78
## 185	80	87
## 186	80	49

## 187	80	72
## 188	80	83
## 189	80	56
## 190	80	86
## 191	80	79
## 192	80	52
## 193	79	77
## 194	79	75
## 195	79	76
## 196	79	87
## 197	79	84
## 198	79	63
## 199	79	70
## 200	79	92
## 201	79	65
## 202	79	67
## 203	79	70
## 204	79	68

```
criticmov_100 <- criticmov %>%
  filter(critics_score == 100)

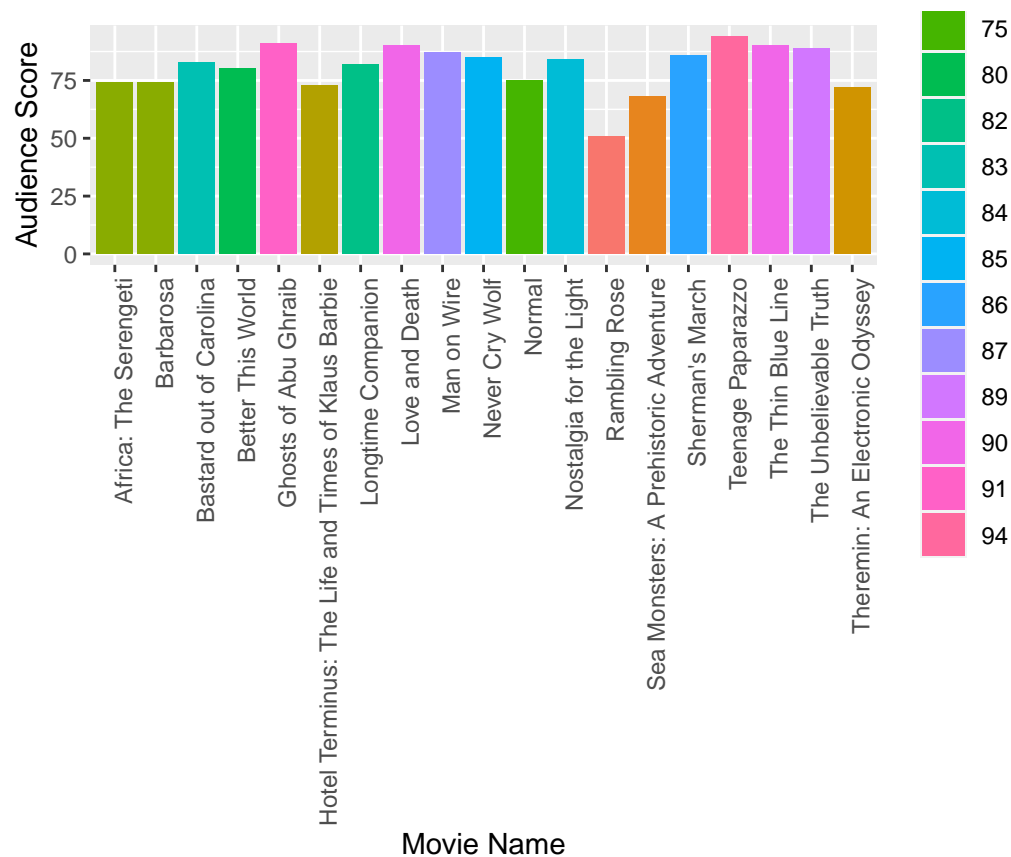
criticmov_100
```

##		title	critics_score
## 1		The Thin Blue Line	100
## 2		Africa: The Serengeti	100
## 3		Sherman's March	100
## 4		Barbarosa	100
## 5		Bastard out of Carolina	100
## 6		Never Cry Wolf	100
## 7		Better This World	100
## 8		Nostalgia for the Light	100
## 9	Hotel Terminus: The Life and Times of Klaus Barbie		100
## 10		Man on Wire	100
## 11		Love and Death	100
## 12		Normal	100
## 13		Longtime Companion	100
## 14		Rambling Rose	100
## 15		Theremin: An Electronic Odyssey	100
## 16		Ghosts of Abu Ghraib	100
## 17	Sea Monsters: A Prehistoric Adventure		100
## 18		Teenage Paparazzo	100
## 19		The Unbelievable Truth	100
##	audience_score		
## 1	90		
## 2	74		
## 3	86		
## 4	74		
## 5	83		
## 6	85		
## 7	80		
## 8	84		
## 9	73		

```
## 10      87
## 11      90
## 12      75
## 13      82
## 14      51
## 15      72
## 16      91
## 17      68
## 18      94
## 19      89
```

## Total 19 movies are there with critic score as 100

```
criticmov_100 %>%
  ggplot(mapping= aes(x = title , y = audience_score, fill = factor(audience_score))) +
  theme(axis.text.x = element_text(angle = 90, hjust = 1)) +
  geom_bar(stat="identity") + xlab("Movie Name") + ylab("Audience Score")
```



## Movies with high critics rating but low audience score lies in which MPAA Rating

```
critic_aud_mov <- distinct_all(movie %>%
  select(title, critics_score, audience_score, imdb_rating, mpaa_rating) %>%
  slice_max(critics_score, n = 200) %>%
  arrange(audience_score))

critic_aud_mov
```

##	title
## 1	Mr. & Mrs. Bridge
## 2	Death Line (Raw Meat)
## 3	The Take
## 4	Young Adult
## 5	Rambling Rose
## 6	Winter Kills
## 7	Dance of the Dead
## 8	Berberian Sound Studio
## 9	The Gauntlet
## 10	Happy, Texas
## 11	Lassie
## 12	Inserts
## 13	Jagged Edge
## 14	The Postman Always Rings Twice
## 15	Compliance
## 16	The Freshman
## 17	Scandal
## 18	Knightriders
## 19	What Richard Did
## 20	Flesh & Blood (Flesh+Blood) (The Rose and the Sword)
## 21	Fair Game
## 22	The Snowtown Murders
## 23	Your Sister's Sister
## 24	The Disappearance of Alice Creed
## 25	Melancholia
## 26	Sea Monsters: A Prehistoric Adventure
## 27	Under Fire
## 28	Running on Empty
## 29	The Funeral
## 30	Titanic
## 31	An Ideal Husband
## 32	The Trip
## 33	Blind Spot: Hitler's Secretary
## 34	A Mighty Heart
## 35	Pooh's Heffalump Movie
## 36	Locke
## 37	Thieves Like Us
## 38	Get on the Bus
## 39	Saturday Night Fever
## 40	Henry: Portrait of a Serial Killer
## 41	Bright Leaves
## 42	Hellboy II: The Golden Army (Hellboy 2)
## 43	This Is the End
## 44	Theremin: An Electronic Odyssey
## 45	The Host
## 46	Tabloid
## 47	Eye of the Needle
## 48	The Whole Wide World
## 49	Countdown to Zero
## 50	The End of America
## 51	Hotel Terminus: The Life and Times of Klaus Barbie
## 52	The Color of Money
## 53	Africa: The Serengeti



## 54	Barbarosa
## 55	Rescue Dawn
## 56	Tarzan
## 57	Normal
## 58	Superman II
## 59	Thunderheart
## 60	One on One
## 61	The Longest Yard
## 62	Rock 'n' Roll High School
## 63	Winter's Bone
## 64	Speed
## 65	The Brother from Another Planet
## 66	Ragtime
## 67	River's Edge
## 68	I Wanna Hold Your Hand
## 69	The Age of Innocence
## 70	Any Day Now
## 71	In Search of Beethoven
## 72	Blue Valentine
## 73	The Yes Men Fix the World
## 74	Phil Ochs: There But For Fortune
## 75	The Imposter
## 76	Diner
## 77	The Big Red One
## 78	The Story Of Luke
## 79	Lorenzo's Oil
## 80	Drive
## 81	The Illusionist (L'illusionniste)
## 82	Topsy-Turvy
## 83	The Sure Thing
## 84	Jerry Maguire
## 85	Saint of 9/11
## 86	What About Bob?
## 87	Harry Potter and the Chamber of Secrets
## 88	While You Were Sleeping
## 89	Better This World
## 90	Croupier
## 91	Hairspray
## 92	The Sessions
## 93	The Belly of an Architect
## 94	Bottle Rocket
## 95	The Secret Garden
## 96	The Dish
## 97	Pina
## 98	In the Loop
## 99	Pusher III: I'm the Angel of Death
## 100	Moonstruck
## 101	After Innocence
## 102	Capote
## 103	The Hunger Games
## 104	Beverly Hills Cop
## 105	Monster
## 106	Driving Miss Daisy
## 107	Longtime Companion

## 108	Of Mice and Men
## 109	Benda Bilili!
## 110	Bound
## 111	The Return of the Pink Panther
## 112	North Face (Nordwand)
## 113	Bastard out of Carolina
## 114	Bull Durham
## 115	Cast Away
## 116	The Black Stallion
## 117	RoboCop
## 118	The English Patient
## 119	Max Manus: Man of War
## 120	Nostalgia for the Light
## 121	The Hurt Locker
## 122	Phantom of the Paradise
## 123	Me and You and Everyone We Know
## 124	The Hangover
## 125	Never Cry Wolf
## 126	Mad Max 2: The Road Warrior
## 127	Missing
## 128	Into The Arms Of Strangers - Stories Of The Kindertransport
## 129	Grizzly Man
## 130	Hairspray
## 131	28 Days Later
## 132	Beyond the Gates
## 133	Lethal Weapon
## 134	George Washington
## 135	Sherman's March
## 136	49 Up
## 137	No Country for Old Men
## 138	The Gleaners and I
## 139	Old Partner
## 140	My Dinner with Andre
## 141	Over the Edge
## 142	Citizen X
## 143	21 Grams
## 144	Man on Wire
## 145	Sweet Sixteen
## 146	The Wedding Banquet (Xi yan)
## 147	Groundhog Day
## 148	Planes, Trains and Automobiles
## 149	Being John Malkovich
## 150	On Golden Pond
## 151	Maurice
## 152	Santa Sangre
## 153	Let It Be
## 154	Ray
## 155	Waking Life
## 156	Grosse Pointe Blank
## 157	Jonestown: The Life and Death of Peoples Temple
## 158	Sans Soleil
## 159	The Little Mermaid
## 160	Serpico
## 161	Saving Face

## 162					Bhutto
## 163					The Unbelievable Truth
## 164	Most Dangerous Man in America: Daniel Ellsberg and the Pentagon Papers				
## 165					Crumb
## 166					Captain Phillips
## 167					Beauty Is Embarrassing
## 168					The Fighter
## 169					What's Eating Gilbert Grape
## 170					The King of Comedy
## 171					F for Fake
## 172					Control
## 173					The Last Lions
## 174					Kill Bill: Volume 2
## 175					The Royal Tenenbaums
## 176					The Thin Blue Line
## 177					Love and Death
## 178					Let the Right One In
## 179	Charlie: The Life and Art of Charles Chaplin				
## 180					Run Lola Run
## 181					Ghosts of Abu Ghraib
## 182	Aguirre, der Zorn Gottes (Aguirre, the Wrath of God)				
## 183					Once
## 184					The Tillman Story
## 185					Imagine: John Lennon
## 186					Waiting for Guffman
## 187					Django Unchained
## 188	Cameraman: The Life And Work Of Jack Cardiff				
## 189					Pete Seeger: The Power of Song
## 190					Aladdin
## 191					Warrior
## 192					Orwell Rolls in His Grave
## 193					Annie Hall
## 194					Glory
## 195					My Flesh and Blood
## 196					Trainspotting
## 197					Teenage Paparazzo
## 198					Aliens
## 199					Good Will Hunting
## 200					Memento
## 201					The Color Purple
## 202					In the Name of the Father
## 203					Promises
## 204					The Godfather, Part II
##	critics_score	audience_score	imdb_rating	mpaa_rating	
## 1	80	42	6.7	PG-13	
## 2	86	44	6.0	R	
## 3	85	49	5.8	R	
## 4	80	49	6.3	R	
## 5	100	51	6.7	R	
## 6	86	51	6.4	R	
## 7	80	52	5.9	R	
## 8	84	54	6.2	Unrated	
## 9	82	54	6.4	R	
## 10	81	54	6.3	PG-13	

## 11	87	56	5.8	PG
## 12	80	56	6.4	NC-17
## 13	82	58	6.4	R
## 14	83	59	6.6	PG
## 15	89	60	6.4	R
## 16	93	61	6.5	PG
## 17	91	61	6.4	R
## 18	82	61	6.4	R
## 19	93	62	6.3	Unrated
## 20	79	63	6.7	R
## 21	79	65	6.8	PG-13
## 22	83	66	6.6	Unrated
## 23	83	66	6.7	R
## 24	82	67	6.8	R
## 25	79	67	7.1	R
## 26	100	68	7.0	G
## 27	88	68	7.1	R
## 28	85	68	7.7	PG-13
## 29	79	68	6.6	R
## 30	88	69	7.7	PG-13
## 31	85	69	6.9	PG-13
## 32	89	70	7.0	Unrated
## 33	85	70	7.3	PG
## 34	79	70	6.7	R
## 35	79	70	6.4	G
## 36	91	71	7.1	R
## 37	89	71	7.1	R
## 38	88	71	6.8	R
## 39	88	71	6.8	R
## 40	86	71	7.0	NC-17
## 41	86	71	7.1	Unrated
## 42	85	71	7.0	PG-13
## 43	83	71	6.7	R
## 44	100	72	7.4	PG
## 45	92	72	7.0	R
## 46	91	72	7.1	R
## 47	85	72	7.1	R
## 48	81	72	7.3	PG
## 49	81	72	6.9	PG
## 50	80	72	7.5	Unrated
## 51	100	73	7.8	Unrated
## 52	90	73	7.0	R
## 53	100	74	7.3	Unrated
## 54	100	74	6.6	PG
## 55	91	74	7.4	PG-13
## 56	88	74	7.2	G
## 57	100	75	7.3	Unrated
## 58	89	75	6.8	PG
## 59	87	75	6.8	R
## 60	83	75	6.4	PG
## 61	81	75	7.1	R
## 62	79	75	6.8	PG
## 63	94	76	7.2	R
## 64	93	76	7.2	R

## 65	92	76	6.8	R
## 66	90	76	7.3	PG
## 67	87	76	7.1	R
## 68	83	76	6.9	PG
## 69	80	76	7.2	PG
## 70	79	76	7.5	R
## 71	92	77	7.5	Unrated
## 72	88	77	7.4	R
## 73	79	77	7.6	Unrated
## 74	97	78	7.6	Unrated
## 75	95	78	7.5	R
## 76	91	78	7.2	R
## 77	91	78	7.2	PG
## 78	80	78	7.3	Unrated
## 79	94	79	7.2	PG-13
## 80	92	79	7.8	R
## 81	90	79	7.5	PG
## 82	89	79	7.4	R
## 83	87	79	7.0	PG-13
## 84	85	79	7.3	R
## 85	84	79	7.8	Unrated
## 86	83	79	7.0	PG
## 87	82	79	7.4	PG
## 88	80	79	6.6	PG
## 89	100	80	7.3	Unrated
## 90	98	80	7.2	R
## 91	97	80	6.9	PG
## 92	93	80	7.2	R
## 93	91	80	7.0	R
## 94	85	80	7.1	R
## 95	85	80	7.3	G
## 96	96	81	7.3	PG-13
## 97	95	81	7.7	PG
## 98	94	81	7.5	Unrated
## 99	92	81	7.3	R
## 100	92	81	7.1	PG
## 101	91	81	7.8	Unrated
## 102	90	81	7.4	R
## 103	84	81	7.3	PG-13
## 104	83	81	7.3	R
## 105	82	81	7.3	R
## 106	81	81	7.4	PG
## 107	100	82	7.6	R
## 108	96	82	7.5	PG-13
## 109	93	82	7.5	PG-13
## 110	92	82	7.4	R
## 111	89	82	7.1	G
## 112	84	82	7.4	Unrated
## 113	100	83	7.4	R
## 114	97	83	7.1	R
## 115	90	83	7.7	PG-13
## 116	88	83	7.4	G
## 117	88	83	7.5	R
## 118	84	83	7.4	R

## 119	80	83	7.3	Unrated
## 120	100	84	7.6	Unrated
## 121	98	84	7.6	R
## 122	95	84	7.4	PG
## 123	81	84	7.4	R
## 124	79	84	7.8	R
## 125	100	85	7.6	PG
## 126	98	85	7.6	R
## 127	96	85	7.8	PG
## 128	94	85	7.9	PG
## 129	93	85	7.8	R
## 130	91	85	6.8	PG
## 131	87	85	7.6	R
## 132	84	85	7.7	R
## 133	84	85	7.6	R
## 134	84	85	7.5	Unrated
## 135	100	86	7.5	Unrated
## 136	95	86	8.2	Unrated
## 137	93	86	8.1	R
## 138	92	86	7.6	Unrated
## 139	91	86	7.8	Unrated
## 140	91	86	7.8	PG
## 141	89	86	7.6	PG
## 142	86	86	7.7	R
## 143	80	86	7.7	R
## 144	100	87	7.9	PG-13
## 145	97	87	7.5	R
## 146	96	87	7.6	R
## 147	96	87	8.1	PG
## 148	94	87	7.6	R
## 149	93	87	7.8	R
## 150	92	87	7.7	PG
## 151	91	87	7.8	R
## 152	85	87	7.7	R
## 153	82	87	7.9	G
## 154	81	87	7.7	PG-13
## 155	80	87	7.8	R
## 156	79	87	7.4	R
## 157	94	88	7.9	Unrated
## 158	92	88	8.2	R
## 159	92	88	7.6	G
## 160	90	88	7.8	R
## 161	87	88	7.6	R
## 162	86	88	7.8	Unrated
## 163	100	89	7.5	R
## 164	96	89	7.8	Unrated
## 165	95	89	8.0	R
## 166	93	89	7.9	PG-13
## 167	90	89	7.5	Unrated
## 168	90	89	7.9	R
## 169	89	89	7.8	PG-13
## 170	89	89	7.8	PG
## 171	88	89	7.8	Unrated
## 172	87	89	7.8	R

## 173	87	89	8.4	PG
## 174	84	89	8.0	R
## 175	80	89	7.6	R
## 176	100	90	8.1	Unrated
## 177	100	90	7.8	PG
## 178	98	90	8.0	R
## 179	95	90	8.0	Unrated
## 180	93	90	7.8	R
## 181	100	91	8.0	Unrated
## 182	98	91	8.0	R
## 183	97	91	7.9	R
## 184	93	91	7.8	R
## 185	92	91	7.9	R
## 186	91	91	7.6	R
## 187	88	91	8.5	R
## 188	96	92	7.8	Unrated
## 189	95	92	8.4	PG
## 190	94	92	8.0	G
## 191	82	92	8.2	PG-13
## 192	79	92	8.1	Unrated
## 193	98	93	8.1	PG
## 194	93	93	7.9	R
## 195	90	93	8.4	Unrated
## 196	89	93	8.2	R
## 197	100	94	7.4	Unrated
## 198	98	94	8.4	R
## 199	97	94	8.3	R
## 200	92	94	8.5	R
## 201	88	94	7.8	PG-13
## 202	94	95	8.1	R
## 203	96	96	8.5	Unrated
## 204	97	97	9.0	R

```
criticmov_100 <- critic_aud_mov %>%
  filter(critics_score == 100) %>%
  slice_min(audience_score, n = 10)

criticmov_100
```

##		title	critics_score
## 1		Rambling Rose	100
## 2		Sea Monsters: A Prehistoric Adventure	100
## 3		Theremin: An Electronic Odyssey	100
## 4		Hotel Terminus: The Life and Times of Klaus Barbie	100
## 5		Africa: The Serengeti	100
## 6		Barbarosa	100
## 7		Normal	100
## 8		Better This World	100
## 9		Longtime Companion	100
## 10		Bastard out of Carolina	100
##	audience_score	imdb_rating	mpaa_rating
## 1	51	6.7	R
## 2	68	7.0	G
## 3	72	7.4	PG

```
## 4          73          7.8      Unrated
## 5          74          7.3      Unrated
## 6          74          6.6        PG
## 7          75          7.3      Unrated
## 8          80          7.3      Unrated
## 9          82          7.6        R
## 10         83          7.4        R
```

*## Total 19 movies are there with critic score as 100*

```
criticmov_100 %>%
  ggplot(mapping= aes(x = audience_score, y = title, color= factor(mpaa_rating), shape = factor(mpaa_rating),
    size = 100)) +
  geom_point(stat = "identity") + xlab("Audience Score") +
  ylab("Movie Name")
```

