

GenreRateStars

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```
set.seed(445)

library(broom)
library(dplyr)

## 
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
## 
##     filter, lag
## The following objects are masked from 'package:base':
## 
##     intersect, setdiff, setequal, union

library(readr)
library(readxl)
library(ggplot2)
library(tidyr)
library(tidyverse)

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## vforcats    1.0.0    vstringr    1.5.1
## vlubridate  1.9.4    vtibble     3.3.0
## vpurrr      1.1.0

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(glmnet)

## Loading required package: Matrix
## 
## Attaching package: 'Matrix'
## 
## The following objects are masked from 'package:tidyverse':
## 
##     expand, pack, unpack
## 
## Loaded glmnet 4.1-10

library(tree)
library(randomForest)

## randomForest 4.7-1.2
```

```

## Type rfNews() to see new features/changes/bug fixes.
##
## Attaching package: 'randomForest'
##
## The following object is masked from 'package:ggplot2':
##   margin
##
## The following object is masked from 'package:dplyr':
##   combine
library(caret)

## Loading required package: lattice
##
## Attaching package: 'caret'
##
## The following object is masked from 'package:purrr':
##   lift
library(rsample)

data <- read.csv('Movie_Industry_1554_84.csv')

sum(is.na(data)) ## Making sure there is no NA data

## [1] 0

head(data)

##   X budget           company country director
## 1 1 8000000 Columbia Pictures Corporation USA Rob Reiner
## 2 2 6000000 Paramount Pictures          USA John Hughes
## 3 3 15000000 Paramount Pictures          USA Tony Scott
## 4 4 18500000 Twentieth Century Fox Film Corporation USA James Cameron
## 5 5 9000000 Walt Disney Pictures          USA Randal Kleiser
## 6 6 6000000 Hemdale                         UK Oliver Stone
##   genre gross           name rating released runtime score
## 1 Adventure 52287414 Stand by Me      R 1986-08-22    89  8.1
## 2 Comedy   70136369 Ferris Bueller's Day Off PG-13 1986-06-11   103  7.8
## 3 Action    179800601 Top Gun            PG 1986-05-16   110  6.9
## 4 Action    85160248 Aliens             R 1986-07-18   137  8.4
## 5 Adventure 18564613 Flight of the Navigator PG 1986-08-01    90  6.9
## 6 Drama    138530565 Platoon            R 1987-02-06   120  8.1
##   star votes writer year
## 1 Wil Wheaton 299174 Stephen King 1986
## 2 Matthew Broderick 264740 John Hughes 1986
## 3 Tom Cruise 236909 Jim Cash 1986
## 4 Sigourney Weaver 540152 James Cameron 1986
## 5 Joey Cramer 36636 Mark H. Baker 1986
## 6 Charlie Sheen 317585 Oliver Stone 1986

```

Analyzing Genre, Rating, and Stars columns

Genre: categorizes the movies' genres: action, adventure, animated, biography, comedy, crime, drama, family,

fantasy, horror, musical, mystery, romance, sci-fi, thriller, war, western

Rating: B, B15, G, NC-17, NOT RATED, Not specified, PG, PG-13, R, TV-14, TV-MA, TV-PG, UNRATED

Stars: 2054 different stars, made a frequency table to show who is most frequently the star in the movie

```
g_freq <- data %>%
  count(genre) %>%
  mutate(percent = round(100*n / sum(n), 2)) %>%
  arrange(desc(percent))
g_freq
```

```
##      genre     n percent
## 1 Comedy 2080 30.50
## 2 Drama 1444 21.17
## 3 Action 1331 19.52
## 4 Crime  522  7.65
## 5 Adventure 392  5.75
## 6 Biography 359  5.26
## 7 Animation 277  4.06
## 8 Horror   277  4.06
## 9 Mystery   38  0.56
## 10 Fantasy   32  0.47
## 11 Thriller  18  0.26
## 12 Romance   15  0.22
## 13 Family    14  0.21
## 14 Sci-Fi    13  0.19
## 15 Musical    4  0.06
## 16 War       2  0.03
## 17 Western    2  0.03
```

```
r_freq <- data %>%
  count(rating) %>%
  mutate(percent = round(100*n / sum(n), 2)) %>%
  arrange(desc(percent))
r_freq
```

```
##      rating     n percent
## 1          R 3392 49.74
## 2      PG-13 1995 29.25
## 3          PG  951 13.94
## 4 NOT RATED 174  2.55
## 5          G  147  2.16
## 6 UNRATED   71  1.04
## 7 Not specified 63  0.92
## 8      NC-17  22  0.32
## 9          B   1  0.01
## 10         B15  1  0.01
## 11        TV-14  1  0.01
## 12        TV-MA  1  0.01
## 13        TV-PG  1  0.01
```

```
s_freq <- data %>%
  count(star) %>%
  mutate(percent = round(100*n / sum(n), 2)) %>%
  arrange(desc(percent))
s_freq
```

	star	n	percent
## 1	Nicolas Cage	42	0.62
## 2	Robert De Niro	38	0.56
## 3	Denzel Washington	36	0.53
## 4	Tom Hanks	35	0.51
## 5	Bruce Willis	33	0.48
## 6	Johnny Depp	32	0.47
## 7	Adam Sandler	27	0.40
## 8	Ben Stiller	27	0.40
## 9	Tom Cruise	27	0.40
## 10	John Cusack	26	0.38
## 11	Kevin Costner	26	0.38
## 12	Eddie Murphy	25	0.37
## 13	John Travolta	25	0.37
## 14	Robin Williams	25	0.37
## 15	Sylvester Stallone	25	0.37
## 16	Keanu Reeves	24	0.35
## 17	Steve Martin	24	0.35
## 18	Mark Wahlberg	23	0.34
## 19	Mel Gibson	23	0.34
## 20	Arnold Schwarzenegger	22	0.32
## 21	Ben Affleck	22	0.32
## 22	Brad Pitt	22	0.32
## 23	George Clooney	22	0.32
## 24	Jim Carrey	22	0.32
## 25	Matt Damon	22	0.32
## 26	Matthew McConaughey	22	0.32
## 27	Anthony Hopkins	21	0.31
## 28	Ethan Hawke	21	0.31
## 29	Jeff Bridges	21	0.31
## 30	Sandra Bullock	21	0.31
## 31	Christian Bale	20	0.29
## 32	Dennis Quaid	20	0.29
## 33	Harrison Ford	20	0.29
## 34	Jackie Chan	20	0.29
## 35	Liam Neeson	20	0.29
## 36	Meryl Streep	20	0.29
## 37	Richard Gere	20	0.29
## 38	Will Smith	20	0.29
## 39	Leonardo DiCaprio	19	0.28
## 40	Nicole Kidman	19	0.28
## 41	Pierce Brosnan	19	0.28
## 42	Will Ferrell	19	0.28
## 43	Al Pacino	18	0.26
## 44	Charlie Sheen	18	0.26
## 45	Jean-Claude Van Damme	18	0.26
## 46	Kevin Bacon	18	0.26
## 47	Kurt Russell	18	0.26
## 48	Michael Keaton	18	0.26
## 49	Russell Crowe	18	0.26
## 50	Brendan Fraser	17	0.25
## 51	Ewan McGregor	17	0.25
## 52	Jason Statham	17	0.25
## 53	Michael Douglas	17	0.25

## 54	Michael J. Fox	17	0.25
## 55	Robert Downey Jr.	17	0.25
## 56	Colin Farrell	16	0.23
## 57	Jake Gyllenhaal	16	0.23
## 58	Samuel L. Jackson	16	0.23
## 59	Sean Penn	16	0.23
## 60	Wesley Snipes	16	0.23
## 61	Dwayne Johnson	15	0.22
## 62	Hugh Grant	15	0.22
## 63	Jack Nicholson	15	0.22
## 64	Julia Roberts	15	0.22
## 65	Nick Nolte	15	0.22
## 66	Reese Witherspoon	15	0.22
## 67	Steve Carell	15	0.22
## 68	Bill Murray	14	0.21
## 69	Clint Eastwood	14	0.21
## 70	Daniel Radcliffe	14	0.21
## 71	Elijah Wood	14	0.21
## 72	Gene Hackman	14	0.21
## 73	Jennifer Aniston	14	0.21
## 74	Ralph Fiennes	14	0.21
## 75	Ryan Reynolds	14	0.21
## 76	Tommy Lee Jones	14	0.21
## 77	Antonio Banderas	13	0.19
## 78	Billy Bob Thornton	13	0.19
## 79	Jack Black	13	0.19
## 80	Joaquin Phoenix	13	0.19
## 81	Joseph Gordon-Levitt	13	0.19
## 82	Kevin Spacey	13	0.19
## 83	Kirsten Dunst	13	0.19
## 84	Morgan Freeman	13	0.19
## 85	Naomi Watts	13	0.19
## 86	Richard Dreyfuss	13	0.19
## 87	Sean Connery	13	0.19
## 88	Val Kilmer	13	0.19
## 89	Vin Diesel	13	0.19
## 90	Cate Blanchett	12	0.18
## 91	Clive Owen	12	0.18
## 92	Colin Firth	12	0.18
## 93	Daniel Day-Lewis	12	0.18
## 94	Drew Barrymore	12	0.18
## 95	Ice Cube	12	0.18
## 96	Jesse Eisenberg	12	0.18
## 97	Martin Lawrence	12	0.18
## 98	Mickey Rourke	12	0.18
## 99	Mike Myers	12	0.18
## 100	Owen Wilson	12	0.18
## 101	Patrick Swayze	12	0.18
## 102	Robert Redford	12	0.18
## 103	Shia LaBeouf	12	0.18
## 104	Sigourney Weaver	12	0.18
## 105	Whoopi Goldberg	12	0.18
## 106	Woody Allen	12	0.18
## 107	Emilio Estevez	11	0.16

```

## 108           Gary Oldman 11 0.16
## 109           Gérard Depardieu 11 0.16
## 110           Helen Mirren 11 0.16
## 111           James McAvoy 11 0.16
## 112           Jason Bateman 11 0.16
## 113           Jodie Foster 11 0.16
## 114           Julianne Moore 11 0.16
## 115           Kevin Kline 11 0.16
## 116           Matthew Broderick 11 0.16
## 117           Ryan Gosling 11 0.16
## 118           Tim Allen 11 0.16
## 119           Tom Berenger 11 0.16
## 120           Willem Dafoe 11 0.16
## 121           Billy Crystal 10 0.15
## 122           Cameron Diaz 10 0.15
## 123           Channing Tatum 10 0.15
## 124           Chris Pine 10 0.15
## 125           Christian Slater 10 0.15
## 126           Christina Ricci 10 0.15
## 127           Christopher Lambert 10 0.15
## 128           Cuba Gooding Jr. 10 0.15
## 129           Daniel Craig 10 0.15
## 130           Demi Moore 10 0.15
## 131           Gerard Butler 10 0.15
## 132           Glenn Close 10 0.15
## 133           Halle Berry 10 0.15
## 134           Harvey Keitel 10 0.15
## 135           Hugh Jackman 10 0.15
## 136           James Franco 10 0.15
## 137           Jennifer Lopez 10 0.15
## 138           Jeremy Irons 10 0.15
## 139           Jet Li 10 0.15
## 140           Kate Beckinsale 10 0.15
## 141           Keira Knightley 10 0.15
## 142           Kristen Stewart 10 0.15
## 143           Michael Caine 10 0.15
## 144           Milla Jovovich 10 0.15
## 145           Natalie Portman 10 0.15
## 146           Patrick Stewart 10 0.15
## 147           Philip Seymour Hoffman 10 0.15
## 148           Rachel Weisz 10 0.15
## 149           Scarlett Johansson 10 0.15
## 150           Steven Seagal 10 0.15
## 151           Tim Robbins 10 0.15
## 152           Vince Vaughn 10 0.15
## 153           Woody Harrelson 10 0.15
## 154           Zac Efron 10 0.15
## 155           Aamir Khan 9 0.13
## 156           Alec Baldwin 9 0.13
## 157           Angelina Jolie 9 0.13
## 158           Anne Hathaway 9 0.13
## 159           Ashton Kutcher 9 0.13
## 160           Bradley Cooper 9 0.13
## 161           Chevy Chase 9 0.13

```

## 162	Diane Lane	9	0.13
## 163	Gael Garc\xeda Bernal	9	0.13
## 164	Jim Belushi	9	0.13
## 165	Jim Caviezel	9	0.13
## 166	John Candy	9	0.13
## 167	John Goodman	9	0.13
## 168	Jude Law	9	0.13
## 169	Meg Ryan	9	0.13
## 170	Melanie Griffith	9	0.13
## 171	Michael Fassbender	9	0.13
## 172	Ren\xe9e Zellweger	9	0.13
## 173	Shah Rukh Khan	9	0.13
## 174	Winona Ryder	9	0.13
## 175	Adrien Brody	8	0.12
## 176	Amy Adams	8	0.12
## 177	Anna Faris	8	0.12
## 178	Bette Midler	8	0.12
## 179	Charlize Theron	8	0.12
## 180	Chris Rock	8	0.12
## 181	Christopher Walken	8	0.12
## 182	Chuck Norris	8	0.12
## 183	Dan Aykroyd	8	0.12
## 184	Danny DeVito	8	0.12
## 185	Danny Glover	8	0.12
## 186	Donald Sutherland	8	0.12
## 187	Emma Roberts	8	0.12
## 188	Evan Rachel Wood	8	0.12
## 189	Gwyneth Paltrow	8	0.12
## 190	Heath Ledger	8	0.12
## 191	Hilary Swank	8	0.12
## 192	James Spader	8	0.12
## 193	James Woods	8	0.12
## 194	Jennifer Lawrence	8	0.12
## 195	Judi Dench	8	0.12
## 196	Juliette Binoche	8	0.12
## 197	Kate Hudson	8	0.12
## 198	Kate Winslet	8	0.12
## 199	Kathleen Turner	8	0.12
## 200	Laurence Fishburne	8	0.12
## 201	Leslie Nielsen	8	0.12
## 202	Matt Dillon	8	0.12
## 203	Matthew Modine	8	0.12
## 204	Michelle Pfeiffer	8	0.12
## 205	Patrick Dempsey	8	0.12
## 206	Seth Rogen	8	0.12
## 207	Simon Pegg	8	0.12
## 208	Stephen Dorff	8	0.12
## 209	Susan Sarandon	8	0.12
## 210	Thomas Jane	8	0.12
## 211	Tilda Swinton	8	0.12
## 212	Tobey Maguire	8	0.12
## 213	Tom Hardy	8	0.12
## 214	Aaron Eckhart	7	0.10
## 215	Bill Paxton	7	0.10

## 216	Billy Crudup	7	0.10
## 217	Diane Keaton	7	0.10
## 218	Dustin Hoffman	7	0.10
## 219	Eric Bana	7	0.10
## 220	Eric Stoltz	7	0.10
## 221	Gabriel Byrne	7	0.10
## 222	Hayden Christensen	7	0.10
## 223	Isabelle Huppert	7	0.10
## 224	Jamie Lee Curtis	7	0.10
## 225	Javier Bardem	7	0.10
## 226	Jennifer Jason Leigh	7	0.10
## 227	Jessica Lange	7	0.10
## 228	Joe Pesci	7	0.10
## 229	Kenneth Branagh	7	0.10
## 230	Lindsay Lohan	7	0.10
## 231	Macaulay Culkin	7	0.10
## 232	Paul Newman	7	0.10
## 233	Paul Walker	7	0.10
## 234	Peter Weller	7	0.10
## 235	Rutger Hauer	7	0.10
## 236	Sam Rockwell	7	0.10
## 237	Saoirse Ronan	7	0.10
## 238	Sharon Stone	7	0.10
## 239	Tom Selleck	7	0.10
## 240	Tyler Perry	7	0.10
## 241	Albert Brooks	6	0.09
## 242	Andrew Garfield	6	0.09
## 243	Anjelica Huston	6	0.09
## 244	Anna Kendrick	6	0.09
## 245	Bob Hoskins	6	0.09
## 246	Burt Reynolds	6	0.09
## 247	Charles Bronson	6	0.09
## 248	Chiwetel Ejiofor	6	0.09
## 249	Chris Evans	6	0.09
## 250	Chris Hemsworth	6	0.09
## 251	Craig Sheffer	6	0.09
## 252	Damon Wayans	6	0.09
## 253	David Duchovny	6	0.09
## 254	Debra Winger	6	0.09
## 255	Ed Harris	6	0.09
## 256	Edward Norton	6	0.09
## 257	Freddie Highmore	6	0.09
## 258	Freddie Prinze Jr.	6	0.09
## 259	Guy Pearce	6	0.09
## 260	Ian McKellen	6	0.09
## 261	Jack Lemmon	6	0.09
## 262	Jamie Foxx	6	0.09
## 263	Jason Biggs	6	0.09
## 264	Jennifer Garner	6	0.09
## 265	Jeremy Renner	6	0.09
## 266	John Turturro	6	0.09
## 267	Josh Hartnett	6	0.09
## 268	Katherine Heigl	6	0.09
## 269	Kiefer Sutherland	6	0.09

## 270	Kim Basinger	6	0.09
## 271	Kristen Bell	6	0.09
## 272	Mia Wasikowska	6	0.09
## 273	Miles Teller	6	0.09
## 274	Paul Giamatti	6	0.09
## 275	Paul Hogan	6	0.09
## 276	Paul Rudd	6	0.09
## 277	Ray Liotta	6	0.09
## 278	Ricardo Dar\xedn	6	0.09
## 279	Rob Lowe	6	0.09
## 280	Robert Englund	6	0.09
## 281	Sally Field	6	0.09
## 282	Sharlto Copley	6	0.09
## 283	Shirley MacLaine	6	0.09
## 284	Steve Guttenberg	6	0.09
## 285	Takeshi Kitano	6	0.09
## 286	Tim Roth	6	0.09
## 287	Uma Thurman	6	0.09
## 288	Warren Beatty	6	0.09
## 289	William Hurt	6	0.09
## 290	Aaron Taylor-Johnson	5	0.07
## 291	Amanda Seyfried	5	0.07
## 292	Andrew McCarthy	5	0.07
## 293	Andy Garcia	5	0.07
## 294	Ashley Judd	5	0.07
## 295	Audrey Tautou	5	0.07
## 296	Bill Pullman	5	0.07
## 297	Cillian Murphy	5	0.07
## 298	David Arquette	5	0.07
## 299	David Spade	5	0.07
## 300	Dermot Mulroney	5	0.07
## 301	Emile Hirsch	5	0.07
## 302	Emma Thompson	5	0.07
## 303	Frankie Muniz	5	0.07
## 304	Geoffrey Rush	5	0.07
## 305	Goldie Hawn	5	0.07
## 306	Greg Kinnear	5	0.07
## 307	James Caan	5	0.07
## 308	Jane Fonda	5	0.07
## 309	John Leguizamo	5	0.07
## 310	Kang-ho Song	5	0.07
## 311	Katie Holmes	5	0.07
## 312	Kevin James	5	0.07
## 313	Laura Linney	5	0.07
## 314	Logan Lerman	5	0.07
## 315	Luke Wilson	5	0.07
## 316	Madonna	5	0.07
## 317	Mandy Moore	5	0.07
## 318	Marion Cotillard	5	0.07
## 319	Marlon Wayans	5	0.07
## 320	Martin Short	5	0.07
## 321	Michael Dudikoff	5	0.07
## 322	Neve Campbell	5	0.07
## 323	Pen\xlope Cruz	5	0.07

## 324	Phoebe Cates	5	0.07
## 325	Ray Romano	5	0.07
## 326	Ray Winstone	5	0.07
## 327	Richard Pryor	5	0.07
## 328	River Phoenix	5	0.07
## 329	Roberto Benigni	5	0.07
## 330	Rowan Atkinson	5	0.07
## 331	Ryan Phillippe	5	0.07
## 332	Sam Neill	5	0.07
## 333	Sam Worthington	5	0.07
## 334	Sarah Jessica Parker	5	0.07
## 335	Shailene Woodley	5	0.07
## 336	Shelley Long	5	0.07
## 337	Sissy Spacek	5	0.07
## 338	Toni Collette	5	0.07
## 339	Tony Chiu-Wai Leung	5	0.07
## 340	Viggo Mortensen	5	0.07
## 341	Yun-Fat Chow	5	0.07
## 342	Ally Sheedy	4	0.06
## 343	Amanda Bynes	4	0.06
## 344	Andie MacDowell	4	0.06
## 345	Annette Bening	4	0.06
## 346	Anthony Edwards	4	0.06
## 347	Anton Yelchin	4	0.06
## 348	Barbra Streisand	4	0.06
## 349	Beau Bridges	4	0.06
## 350	Breckin Meyer	4	0.06
## 351	Bridget Fonda	4	0.06
## 352	Camilla Belle	4	0.06
## 353	Cary Elwes	4	0.06
## 354	Casey Affleck	4	0.06
## 355	Cher	4	0.06
## 356	Chlo\xeb Grace Moretz	4	0.06
## 357	Chris Farley	4	0.06
## 358	Chris O'Donnell	4	0.06
## 359	Christopher Reeve	4	0.06
## 360	Christopher Reid	4	0.06
## 361	Dakota Fanning	4	0.06
## 362	Daniel Auteuil	4	0.06
## 363	Dolph Lundgren	4	0.06
## 364	Don Cheadle	4	0.06
## 365	Donald Pleasence	4	0.06
## 366	Eddie Redmayne	4	0.06
## 367	Edward Burns	4	0.06
## 368	Edward Furlong	4	0.06
## 369	Edward James Olmos	4	0.06
## 370	Elle Fanning	4	0.06
## 371	Ellen Barkin	4	0.06
## 372	Emily Blunt	4	0.06
## 373	Emily Watson	4	0.06
## 374	Felicity Jones	4	0.06
## 375	Forest Whitaker	4	0.06
## 376	Frances McDormand	4	0.06
## 377	Geena Davis	4	0.06

## 378	Helena Bonham Carter	4	0.06
## 379	Henry Cavill	4	0.06
## 380	Hilary Duff	4	0.06
## 381	Hulk Hogan	4	0.06
## 382	Idris Elba	4	0.06
## 383	James Marsden	4	0.06
## 384	Jamie Bell	4	0.06
## 385	Jason Lee	4	0.06
## 386	Jason Patric	4	0.06
## 387	Jason Scott Lee	4	0.06
## 388	Jason Sudeikis	4	0.06
## 389	Jean Reno	4	0.06
## 390	Jeff Daniels	4	0.06
## 391	Jeff Goldblum	4	0.06
## 392	Jeremy Davies	4	0.06
## 393	Jesse Bradford	4	0.06
## 394	Jim Sturgess	4	0.06
## 395	Jim Varney	4	0.06
## 396	John Lithgow	4	0.06
## 397	John Malkovich	4	0.06
## 398	Jon Voight	4	0.06
## 399	Jonah Hill	4	0.06
## 400	Josh Brolin	4	0.06
## 401	Josh Hutcherson	4	0.06
## 402	Julian Sands	4	0.06
## 403	Kal Penn	4	0.06
## 404	Karl Urban	4	0.06
## 405	Kathy Bates	4	0.06
## 406	Li Gong	4	0.06
## 407	Lily Collins	4	0.06
## 408	Lou Diamond Phillips	4	0.06
## 409	Mads Mikkelsen	4	0.06
## 410	Maggie Smith	4	0.06
## 411	Mark Harmon	4	0.06
## 412	Mark Ruffalo	4	0.06
## 413	Melissa McCarthy	4	0.06
## 414	Michael Biehn	4	0.06
## 415	Michael Cera	4	0.06
## 416	Michael Pitt	4	0.06
## 417	Michelle Williams	4	0.06
## 418	Molly Ringwald	4	0.06
## 419	Nia Vardalos	4	0.06
## 420	Nicholas Hoult	4	0.06
## 421	Patricia Arquette	4	0.06
## 422	Patrick Wilson	4	0.06
## 423	Pauly Shore	4	0.06
## 424	Piper Perabo	4	0.06
## 425	Queen Latifah	4	0.06
## 426	Rachel McAdams	4	0.06
## 427	Radha Mitchell	4	0.06
## 428	Rebecca De Mornay	4	0.06
## 429	Rick Moranis	4	0.06
## 430	Rob Schneider	4	0.06
## 431	Robert Carlyle	4	0.06

## 432	Robert Duvall	4	0.06
## 433	Robert Pattinson	4	0.06
## 434	Romain Duris	4	0.06
## 435	Sacha Baron Cohen	4	0.06
## 436	Sanaa Lathan	4	0.06
## 437	Scott Bakula	4	0.06
## 438	Sean Astin	4	0.06
## 439	Stellan Skarsgård	4	0.06
## 440	Stephen Lang	4	0.06
## 441	Steve Buscemi	4	0.06
## 442	Steve Coogan	4	0.06
## 443	Taye Diggs	4	0.06
## 444	Timothy Hutton	4	0.06
## 445	Tobin Bell	4	0.06
## 446	Trey Parker	4	0.06
## 447	Vanessa Redgrave	4	0.06
## 448	Vincent Gallo	4	0.06
## 449	William H. Macy	4	0.06
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## 488	Charles Grodin	3	0.04
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## 490	Charlotte Gainsbourg	3	0.04
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## 496	Colin Friels	3	0.04
## 497	Corey Haim	3	0.04
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## 499	Dana Carvey	3	0.04
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## 548	John Hurt	3	0.04
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## 552	Julia Ormond	3	0.04
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## 554	Kate Bosworth	3	0.04
## 555	Keenen Ivory Wayans	3	0.04
## 556	Keri Russell	3	0.04
## 557	Kevin Hart	3	0.04
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## 562	Laura Dern	3	0.04
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## 569	Mario Van Peebles	3	0.04
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## 572	Martin Sheen	3	0.04
## 573	Mary Elizabeth Winstead	3	0.04
## 574	Matthew Lillard	3	0.04
## 575	Megan Fox	3	0.04
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## 580	Miley Cyrus	3	0.04
## 581	Morris Chestnut	3	0.04
## 582	Natasha Henstridge	3	0.04
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## 584	Nick Cannon	3	0.04
## 585	Omar Epps	3	0.04
## 586	Orlando Bloom	3	0.04
## 587	Paul Dano	3	0.04
## 588	Penelope Ann Miller	3	0.04
## 589	Peter Berg	3	0.04
## 590	Peter Coyote	3	0.04
## 591	Peter Gallagher	3	0.04
## 592	Richard E. Grant	3	0.04
## 593	Ricky Gervais	3	0.04

## 594	Robert Townsend	3	0.04
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## 596	Ron Perlman	3	0.04
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## 598	Rosanna Arquette	3	0.04
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## 601	Ryan Kwanten	3	0.04
## 602	Sally Hawkins	3	0.04
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## 604	Sarah Michelle Gellar	3	0.04
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## 609	Stephen Rea	3	0.04
## 610	Theresa Russell	3	0.04
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## 614	Victor Wong	3	0.04
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## 631	Adrienne Shelly	2	0.03
## 632	Agnes Bruckner	2	0.03
## 633	Alan Alda	2	0.03
## 634	Alan Arkin	2	0.03
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## 636	Alex D. Linz	2	0.03
## 637	Alex Kendrick	2	0.03
## 638	Alexander Skarsgård	2	0.03
## 639	Alexis Bledel	2	0.03
## 640	Alison Lohman	2	0.03
## 641	Allen Payne	2	0.03
## 642	Amber Tamblyn	2	0.03
## 643	America Ferrera	2	0.03
## 644	Amitabh Bachchan	2	0.03
## 645	Amy Poehler	2	0.03
## 646	André Benjamin	2	0.03
## 647	Andy Lau	2	0.03

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## 648          AnnaSophia Robb 2 0.03
## 649          Anne Bancroft 2 0.03
## 650          Anne Parillaud 2 0.03
## 651          Anthony Perkins 2 0.03
## 652          Assumpta Serna 2 0.03
## 653          Barry Watson 2 0.03
## 654          Bel Powley 2 0.03
## 655          Benicio Del Toro 2 0.03
## 656          Benjamin Walker 2 0.03
## 657          Bette Davis 2 0.03
## 658          Beyonc\xe9 Knowles 2 0.03
## 659          Bill Cosby 2 0.03
## 660          Billy Zane 2 0.03
## 661          Blake Lively 2 0.03
## 662          Blythe Danner 2 0.03
## 663          Bobcat Goldthwait 2 0.03
## 664          Brandon Lee 2 0.03
## 665          Brandon Routh 2 0.03
## 666          Brenda Blethyn 2 0.03
## 667          Brian Cox 2 0.03
## 668          Brian Dennehy 2 0.03
## 669          Brian Krause 2 0.03
## 670          Brie Larson 2 0.03
## 671          Brigitte Lin 2 0.03
## 672          Brittany Murphy 2 0.03
## 673          Brooke Adams 2 0.03
## 674          Brooke Shields 2 0.03
## 675          Bruce Greenwood 2 0.03
## 676          Bryce Dallas Howard 2 0.03
## 677          Bubba Smith 2 0.03
## 678          Burt Lancaster 2 0.03
## 679          Carmen Maura 2 0.03
## 680          Catherine Deneuve 2 0.03
## 681          Chris Brown 2 0.03
## 682          Chris Kattan 2 0.03
## 683          Christian Clavier 2 0.03
## 684          Christina Applegate 2 0.03
## 685          Christine Lahti 2 0.03
## 686          Christopher Guest 2 0.03
## 687          Christopher Lloyd 2 0.03
## 688          Christopher Plummer 2 0.03
## 689          Claire Danes 2 0.03
## 690          Colm Meaney 2 0.03
## 691          Columbus Short 2 0.03
## 692          Crispin Glover 2 0.03
## 693          Cyril Raffaelli 2 0.03
## 694          C\xe9cile De France 2 0.03
## 695          Dabney Coleman 2 0.03
## 696          Dakota Johnson 2 0.03
## 697          Dan Fogler 2 0.03
## 698          Dane DeHaan 2 0.03
## 699          Daniel Br\xfcchel 2 0.03
## 700          Danny Aiello 2 0.03
## 701          Danny McBride 2 0.03

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## 709	Dax Shepard	2	0.03
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## 713	Diego Luna	2	0.03
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## 715	Donnie Yen	2	0.03
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## 724	Eva Green	2	0.03
## 725	Frank Grillo	2	0.03
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## 740	Heather Langenkamp	2	0.03
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## 742	Iko Uwais	2	0.03
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## 746	Jack Thompson	2	0.03
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## 755	Janet McTeer	2	0.03

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## 766	Joan Allen	2	0.03
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## 797	Kate Mara	2	0.03
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## 801	Kelly McGillis	2	0.03
## 802	Kelsey Grammer	2	0.03
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## 805	Kieran Culkin	2	0.03
## 806	Kimberly Elise	2	0.03
## 807	Kirstie Alley	2	0.03
## 808	Klaus Maria Brandauer	2	0.03
## 809	Kristen Wiig	2	0.03

## 810	Kristy Swanson	2	0.03
## 811	Kyle MacLachlan	2	0.03
## 812	K\xxf4ji Yakusho	2	0.03
## 813	Lake Bell	2	0.03
## 814	Lara Flynn Boyle	2	0.03
## 815	Larenz Tate	2	0.03
## 816	Lauren German	2	0.03
## 817	Lea Thompson	2	0.03
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## 820	Liev Schreiber	2	0.03
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## 826	Luke Evans	2	0.03
## 827	L\xe9a Seydoux	2	0.03
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## 829	Marc Singer	2	0.03
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## 837	Mary Steenburgen	2	0.03
## 838	Matthew Perry	2	0.03
## 839	Max von Sydow	2	0.03
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## 841	Mel Brooks	2	0.03
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## 845	Michel Bouquet	2	0.03
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## 847	Mila Kunis	2	0.03
## 848	Mira Sorvino	2	0.03
## 849	Monica Bellucci	2	0.03
## 850	Nanni Moretti	2	0.03
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## 853	Nathan Lane	2	0.03
## 854	Nathan Phillips	2	0.03
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## 857	Noomi Rapace	2	0.03
## 858	Norm MacDonald	2	0.03
## 859	Olivia Wilde	2	0.03
## 860	Olivier Gruner	2	0.03
## 861	Oscar Isaac	2	0.03
## 862	Paddy Considine	2	0.03
## 863	Parker Posey	2	0.03

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## 865	Patrick Bergin	2	0.03
## 866	Patsy Kensit	2	0.03
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## 868	Pete Postlethwaite	2	0.03
## 869	Peter Dinklage	2	0.03
## 870	Peter Falk	2	0.03
## 871	Peter O'Toole	2	0.03
## 872	Philippe Noiret	2	0.03
## 873	Prince	2	0.03
## 874	Qi Shu	2	0.03
## 875	Quvenzhan\xe9 Wallis	2	0.03
## 876	Rainn Wilson	2	0.03
## 877	Ralph Macchio	2	0.03
## 878	Randy Quaid	2	0.03
## 879	Ray Stevenson	2	0.03
## 880	Rebecca Hall	2	0.03
## 881	Rhona Mitra	2	0.03
## 882	Rhys Ifans	2	0.03
## 883	Rica Matsumoto	2	0.03
## 884	Robert Lindsay	2	0.03
## 885	Robert Sean Leonard	2	0.03
## 886	Rodney Dangerfield	2	0.03
## 887	Ron Fazio	2	0.03
## 888	Russell Brand	2	0.03
## 889	Ryan O'Neal	2	0.03
## 890	Ry\xfbnosuke Kamiki	2	0.03
## 891	Salma Hayek	2	0.03
## 892	Sam Riley	2	0.03
## 893	Sara Paxton	2	0.03
## 894	Sarah Miles	2	0.03
## 895	Scott Mechlowicz	2	0.03
## 896	Scott Valentine	2	0.03
## 897	Scout Taylor-Compton	2	0.03
## 898	Sean Bean	2	0.03
## 899	Sean Faris	2	0.03
## 900	Sean Young	2	0.03
## 901	Selma Blair	2	0.03
## 902	Shad Moss	2	0.03
## 903	Shaquille O'Neal	2	0.03
## 904	Sharni Vinson	2	0.03
## 905	Shawn Ashmore	2	0.03
## 906	Shawn Wayans	2	0.03
## 907	Sid Haig	2	0.03
## 908	Sidney Poitier	2	0.03
## 909	Sinbad	2	0.03
## 910	Stephen Chow	2	0.03
## 911	Steve Zahn	2	0.03
## 912	Steven Weber	2	0.03
## 913	Taraji P. Henson	2	0.03
## 914	Tate Donovan	2	0.03
## 915	Ted Danson	2	0.03
## 916	Terence Stamp	2	0.03
## 917	Terry O'Quinn	2	0.03

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## 918      Thierry Lhermitte 2 0.03
## 919      Thomas Ian Nicholas 2 0.03
## 920      Thomas Mann 2 0.03
## 921      Thora Birch 2 0.03
## 922      Til Schweiger 2 0.03
## 923      Tim Curry 2 0.03
## 924      Timothy Olyphant 2 0.03
## 925      Timothy Spall 2 0.03
## 926      Tina Fey 2 0.03
## 927      Tom Conti 2 0.03
## 928      Tom Everett Scott 2 0.03
## 929      Tom Hiddleston 2 0.03
## 930      Tommy Davidson 2 0.03
## 931      Tony Jaa 2 0.03
## 932      Tony Shalhoub 2 0.03
## 933      Tony Todd 2 0.03
## 934      Treat Williams 2 0.03
## 935      Ulrich Thomsen 2 0.03
## 936      Vanessa Hudgens 2 0.03
## 937      Vanessa Williams 2 0.03
## 938      Vera Farmiga 2 0.03
## 939      Vinnie Jones 2 0.03
## 940      Wagner Moura 2 0.03
## 941      Warwick Davis 2 0.03
## 942      Wil Wheaton 2 0.03
## 943      Will Arnett 2 0.03
## 944      Yekaterina Golubeva 2 0.03
## 945      Yves Montand 2 0.03
## 946      Zoey Deutch 2 0.03
## 947      Zooey Deschanel 2 0.03
## 948      'Weird Al' Yankovic 1 0.01
## 949      50 Cent 1 0.01
## 950      A.J. Cook 1 0.01
## 951      Aaliyah 1 0.01
## 952      Aaron Abrams 1 0.01
## 953      Aaron Poole 1 0.01
## 954      Abigail Breslin 1 0.01
## 955      Abraham Attah 1 0.01
## 956      Adam Butcher 1 0.01
## 957      Adam Driver 1 0.01
## 958      Adelaide Clemens 1 0.01
## 959      Adrian Grenier 1 0.01
## 960      Adrienne Barbeau 1 0.01
## 961      Agata Kulesza 1 0.01
## 962      Aida Mohammadkhani 1 0.01
## 963      Aimee Teegarden 1 0.01
## 964      Aitana S\xe1nchez-Gij\xf3n 1 0.01
## 965      Ajay Devgn 1 0.01
## 966      Akio \xd4tsuka 1 0.01
## 967      Akira Terao 1 0.01
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## 969      Al Franken 1 0.01
## 970      Al Pillay 1 0.01
## 971      Alan Bates 1 0.01

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## 972	Alan Boyce	1	0.01
## 973	Alan Cumming	1	0.01
## 974	Alan Van Sprang	1	0.01
## 975	Alan Young	1	0.01
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## 977	Alex Dimitriades	1	0.01
## 978	Alex Etel	1	0.01
## 979	Alex Veadov	1	0.01
## 980	Alex Vincent	1	0.01
## 981	AlexSandra Wright	1	0.01
## 982	Alexander Ludwig	1	0.01
## 983	Alexandra Daddario	1	0.01
## 984	Alexandra Dahlstr\xf6m	1	0.01
## 985	Alexandre Rodrigues	1	0.01
## 986	Alexis Denisof	1	0.01
## 987	Alfre Woodard	1	0.01
## 988	Alfred Molina	1	0.01
## 989	Alice Englert	1	0.01
## 990	Alice Eve	1	0.01
## 991	Alice Lowe	1	0.01
## 992	Alison Elliott	1	0.01
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## 994	Allen Covert	1	0.01
## 995	Alyson Hannigan	1	0.01
## 996	Alyssa Milano	1	0.01
## 997	Amanda Donohoe	1	0.01
## 998	Amanda Schull	1	0.01
## 999	Ami Dolenz	1	0.01
## 1000	Amy Brenneman	1	0.01
## 1001	Amy Landecker	1	0.01
## 1002	Amy Schumer	1	0.01
## 1003	Amy Sedaris	1	0.01
## 1004	Amy Seimetz	1	0.01
## 1005	Amy Yip	1	0.01
## 1006	Anamaria Marinca	1	0.01
## 1007	Ana\xefs Reboux	1	0.01
## 1008	Anders W. Berthelsen	1	0.01
## 1009	Andre Gower	1	0.01
## 1010	Andreas Wilson	1	0.01
## 1011	Andrew Dice Clay	1	0.01
## 1012	Andrew Lawrence	1	0.01
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## 1014	Andrew Philpot	1	0.01
## 1015	Andrew Prine	1	0.01
## 1016	Andrew Robinson	1	0.01
## 1017	Andrew Stevens	1	0.01
## 1018	Andy Powers	1	0.01
## 1019	Angel Aviles	1	0.01
## 1020	Angela Bettis	1	0.01
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## 1022	Angus Macfadyen	1	0.01
## 1023	Anika Noni Rose	1	0.01
## 1024	Ann Dowd	1	0.01
## 1025	Anna Chlumsky	1	0.01

## 1026	Anna Friel	1	0.01
## 1027	Annabeth Gish	1	0.01
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## 1029	Anne Teyss\xe8dre	1	0.01
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## 1031	Anthony Anderson	1	0.01
## 1032	Anthony Barrile	1	0.01
## 1033	Anthony Mackie	1	0.01
## 1034	Anthony Newley	1	0.01
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## 1037	Arata Iura	1	0.01
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## 1043	Arsenio Hall	1	0.01
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## 1048	Atsuko Tanaka	1	0.01
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## 1076	Bernard Giraudeau	1	0.01
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## 1078	Bernie	1	0.01
## 1079	Bernie Mac	1	0.01

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## 1080      Bethany Whitmore 1 0.01
## 1081      Bill Bailey 1 0.01
## 1082      Bill Bellamy 1 0.01
## 1083      Bill Farmer 1 0.01
## 1084      Bill Hader 1 0.01
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## 1086      Bill Nighy 1 0.01
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## 1092      Blair Brown 1 0.01
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## 1116      Briana Evigan 1 0.01
## 1117      Bridgit Mendler 1 0.01
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## 1119      Britney Spears 1 0.01
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## 1121      Bronson Pinchot 1 0.01
## 1122      Bruce Jones 1 0.01
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## 1124      Bruce Ramsay 1 0.01
## 1125      Byron Minns 1 0.01
## 1126      Byung-hun Lee 1 0.01
## 1127      B\xe1rbara Mori 1 0.01
## 1128      B\xe9atrice Bejo 1 0.01
## 1129      Cal Robertson 1 0.01
## 1130      Calvin Reeder 1 0.01
## 1131      Cameron Dye 1 0.01
## 1132      Campbell Scott 1 0.01
## 1133      Candace Evanofski 1 0.01

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## 1135	Carl Weathers	1	0.01
## 1136	Carla Juri	1	0.01
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## 1242	Danny Hoch	1	0.01
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## 1271	Dee Wallace	1	0.01
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## 1273	Delta Burke	1	0.01
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## 1275	Denis Lavant	1	0.01
## 1276	Denise Richards	1	0.01
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## 1278	Dennis Rodman	1	0.01
## 1279	Deon Richmond	1	0.01
## 1280	Derek Jarman	1	0.01
## 1281	Derek Luke	1	0.01
## 1282	Derek Richardson	1	0.01
## 1283	Derek Rydall	1	0.01
## 1284	Derek de Lint	1	0.01
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## 1286	Dexter Gordon	1	0.01
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## 1290	Dick Durock	1	0.01
## 1291	Diedrich Bader	1	0.01
## 1292	Diego Abatantuono	1	0.01
## 1293	Dieter Laser	1	0.01
## 1294	Dirk Benedict	1	0.01
## 1295	Djimon Hounsou	1	0.01

## 1296	Do-yeon Jeon	1	0.01
## 1297	Dolly Parton	1	0.01
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## 1313	Douglas Barr	1	0.01
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## 1324	Ed Begley Jr.	1	0.01
## 1325	Ed Lover	1	0.01
## 1326	Ed O'Neill	1	0.01
## 1327	Ed Skrein	1	0.01
## 1328	Ed Speleers	1	0.01
## 1329	Eddie Griffin	1	0.01
## 1330	Edith Meeks	1	0.01
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## 1338	Eli Roth	1	0.01
## 1339	Elias McConnell	1	0.01
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## 1343	Eliza Dushku	1	0.01
## 1344	Elizabeth Banks	1	0.01
## 1345	Elizabeth Berkley	1	0.01
## 1346	Elizabeth Daily	1	0.01
## 1347	Elizabeth Perkins	1	0.01
## 1348	Elizabeth Reaser	1	0.01
## 1349	Ellar Coltrane	1	0.01

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## 1350          Ellen Burstyn 1  0.01
## 1351          Embeth Davidtz 1  0.01
## 1352          Emilia Clarke 1  0.01
## 1353          Emilio Echevarr\xeda 1  0.01
## 1354          Emily Baldoni 1  0.01
## 1355          Emily Bergl 1  0.01
## 1356          Emily Longstreth 1  0.01
## 1357          Emily Mortimer 1  0.01
## 1358          Emily Perkins 1  0.01
## 1359          Emily VanCamp 1  0.01
## 1360          Eminem 1  0.01
## 1361          Emmanuel Garijo 1  0.01
## 1362          Emmanuel Schott\xe9 1  0.01
## 1363          Emmanuelle B\xe9art 1  0.01
## 1364          Emmanuelle Chaulet 1  0.01
## 1365          Emmanuelle Seigner 1  0.01
## 1366          Enrico Lo Verso 1  0.01
## 1367          Enrique Diaz 1  0.01
## 1368          Eric Balfour 1  0.01
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## 1370          Eric Christian Olsen 1  0.01
## 1371          Eric Freeman 1  0.01
## 1372          Erik Smith 1  0.01
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## 1374          Erin Darke 1  0.01
## 1375          Erin Kelly 1  0.01
## 1376          Erland Josephson 1  0.01
## 1377          Ernie Reyes Sr. 1  0.01
## 1378          Essie Davis 1  0.01
## 1379          Eva Bourne 1  0.01
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## 1386          Faizon Love 1  0.01
## 1387          Famke Janssen 1  0.01
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## 1389          Federico Luppi 1  0.01
## 1390          Felicity Huffman 1  0.01
## 1391          Felicity Mason 1  0.01
## 1392          Ferdia Walsh-Peelo 1  0.01
## 1393          Fernanda Andrade 1  0.01
## 1394          Fernanda Montenegro 1  0.01
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## 1396          Fisher Stevens 1  0.01
## 1397          Flex Alexander 1  0.01
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## 1402          Frances O'Connor 1  0.01
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## 1423	Gary Farmer	1	0.01
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## 1482	Hideaki Anno	1	0.01
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## 1484	Hiep Thi Le	1	0.01
## 1485	Hiroki Hasegawa	1	0.01
## 1486	Hiroshi Abe	1	0.01
## 1487	Homayoun Ershadi	1	0.01
## 1488	Hossein Mahjoub	1	0.01
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## 1490	Howie Long	1	0.01
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## 1988	Miho Nikaido	1	0.01
## 1989	Mikael Persbrandt	1	0.01
## 1990	Mike Dytri	1	0.01
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## 1992	Mike Judge	1	0.01
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## 1995	Mike White	1	0.01
## 1996	Miki Imai	1	0.01
## 1997	Mikko Nousiaainen	1	0.01

```

## 1998           Milo Ventimiglia 1 0.01
## 1999           Mimi Rogers 1 0.01
## 2000           Min-hee Kim 1 0.01
## 2001           Min-sik Choi 1 0.01
## 2002           Ming-Na Wen 1 0.01
## 2003           Minka Kelly 1 0.01
## 2004           Minnie Driver 1 0.01
## 2005           Miou-Miou 1 0.01
## 2006           Miranda Richardson 1 0.01
## 2007           Missi Pyle 1 0.01
## 2008           Missy Peregrym 1 0.01
## 2009           Mitchel Musso 1 0.01
## 2010           Mitchell Gaylord 1 0.01
## 2011           Miyoko Sh\xf4ji 1 0.01
## 2012           Mohamad Ali Keshavarz 1 0.01
## 2013           Mohammad Amir Naji 1 0.01
## 2014           Mohsen Makhmalbaf 1 0.01
## 2015           Molly Parker 1 0.01
## 2016           Molly Shannon 1 0.01
## 2017           Monica Calhoun 1 0.01
## 2018           Monica Potter 1 0.01
## 2019           Morgan Saylor 1 0.01
## 2020           Moritz Bleibtreu 1 0.01
## 2021           Munro Chambers 1 0.01
## 2022           N!xau 1 0.01
## 2023           Najarra Townsend 1 0.01
## 2024           Najwa Nimri 1 0.01
## 2025           Nancy Allen 1 0.01
## 2026           Nas 1 0.01
## 2027           Naseeruddin Shah 1 0.01
## 2028           Nassim Abdi 1 0.01
## 2029           Nastassja Kinski 1 0.01
## 2030           Nat Wolff 1 0.01
## 2031           Natalie Dormer 1 0.01
## 2032           Natalie Press 1 0.01
## 2033           Natar Ungalaaq 1 0.01
## 2034           Natasha Calis 1 0.01
## 2035           Nate Parker 1 0.01
## 2036           Nathalie Baye 1 0.01
## 2037           Nathan Baesel 1 0.01
## 2038           Nathan Purdee 1 0.01
## 2039           Nathaniel Brown 1 0.01
## 2040           Naveen Andrews 1 0.01
## 2041           Navi Rawat 1 0.01
## 2042           Necmettin \xc7obanoglu 1 0.01
## 2043           Ned Beatty 1 0.01
## 2044           Neel Sethi 1 0.01
## 2045           Neil Dickson 1 0.01
## 2046           Neil Maskell 1 0.01
## 2047           Neil Patrick Harris 1 0.01
## 2048           Nicholas D'Agosto 1 0.01
## 2049           Nick Robinson 1 0.01
## 2050           Nick Sutton 1 0.01
## 2051           Nick Zano 1 0.01

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## 2052	Nicolas Giraudi	1	0.01
## 2053	Nicole Eggert	1	0.01
## 2054	Nicole de Boer	1	0.01
## 2055	Nien-Jen Wu	1	0.01
## 2056	Nigel Hawthorne	1	0.01
## 2057	Nikita Mikhalkov	1	0.01
## 2058	Nikki Reed	1	0.01
## 2059	Nilbio Torres	1	0.01
## 2060	Nina Siemaszko	1	0.01
## 2061	Noah Ringer	1	0.01
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## 2063	Noam Almaz	1	0.01
## 2064	Norah Jones	1	0.01
## 2065	Nozomu Sasaki	1	0.01
## 2066	No\xe9mie Lvovsky	1	0.01
## 2067	O'Shea Jackson Jr.	1	0.01
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## 2069	Oksana Akinshina	1	0.01
## 2070	Oliver Driver	1	0.01
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## 2072	Oliver Reed	1	0.01
## 2073	Olivia Cooke	1	0.01
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## 2076	Olivier Martinez	1	0.01
## 2077	Om Puri	1	0.01
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## 2080	Orson Welles	1	0.01
## 2081	Otto Jespersen	1	0.01
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## 2083	Owen Kline	1	0.01
## 2084	Paige O'Hara	1	0.01
## 2085	Paige Turco	1	0.01
## 2086	Pam Grier	1	0.01
## 2087	Pamela Adlon	1	0.01
## 2088	Pamela Anderson	1	0.01
## 2089	Paris Hilton	1	0.01
## 2090	Parminder Nagra	1	0.01
## 2091	Parry Shen	1	0.01
## 2092	Pascale Bussi\xe8res	1	0.01
## 2093	Pat Hingle	1	0.01
## 2094	Patrick Fabian	1	0.01
## 2095	Patrick Fugit	1	0.01
## 2096	Paul Austin	1	0.01
## 2097	Paul Brannigan	1	0.01
## 2098	Paul Gross	1	0.01
## 2099	Paul Kaye	1	0.01
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## 2104	Paul Terry	1	0.01
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## 2106	Paulina Gaitan	1	0.01
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## 2109	Payman Maadi	1	0.01
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## 2111	Peggy Ashcroft	1	0.01
## 2112	Pelle Hvenegaard	1	0.01
## 2113	Penn Badgley	1	0.01
## 2114	Perdita Weeks	1	0.01
## 2115	Peter Billingsley	1	0.01
## 2116	Peter Boyle	1	0.01
## 2117	Peter Fonda	1	0.01
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## 2119	Peter Mullan	1	0.01
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## 2127	Pierre Niney	1	0.01
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## 2131	Pl\xe1cidio Domingo	1	0.01
## 2132	Prabhas	1	0.01
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## 2136	Pruitt Taylor Vince	1	0.01
## 2137	Pyotr Mamonov	1	0.01
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## 2151	Raul Julia	1	0.01
## 2152	Raven-Symon\xe9	1	0.01
## 2153	Rebecca Jenkins	1	0.01
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## 2156	Red Steagall	1	0.01
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## 2158	Regina King	1	0.01
## 2159	Reiko Aylesworth	1	0.01

## 2160	Rekha	1	0.01
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## 2162	Renaud	1	0.01
## 2163	Rene Russo	1	0.01
## 2164	Rhys Wakefield	1	0.01
## 2165	Ricardo Meneses	1	0.01
## 2166	Richard Alexander	1	0.01
## 2167	Richard Armitage	1	0.01
## 2168	Richard Attenborough	1	0.01
## 2169	Richard Bohringer	1	0.01
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## 2177	Richard Kind	1	0.01
## 2178	Richard Linklater	1	0.01
## 2179	Richard T. Jones	1	0.01
## 2180	Rick Yune	1	0.01
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## 2182	Ricky Busker	1	0.01
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## 2184	Riz Ahmed	1	0.01
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## 2186	Rob Corddry	1	0.01
## 2187	Robbie Coltrane	1	0.01
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## 2190	Robert Gustafsson	1	0.01
## 2191	Robert Hoffman	1	0.01
## 2192	Robert John Burke	1	0.01
## 2193	Robert Klein	1	0.01
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## 2198	Robin Shou	1	0.01
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## 2201	Robyn Lively	1	0.01
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## 2210	Rongguang Yu	1	0.01
## 2211	Rory Culkin	1	0.01
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## 2213	Rosario Dawson	1	0.01

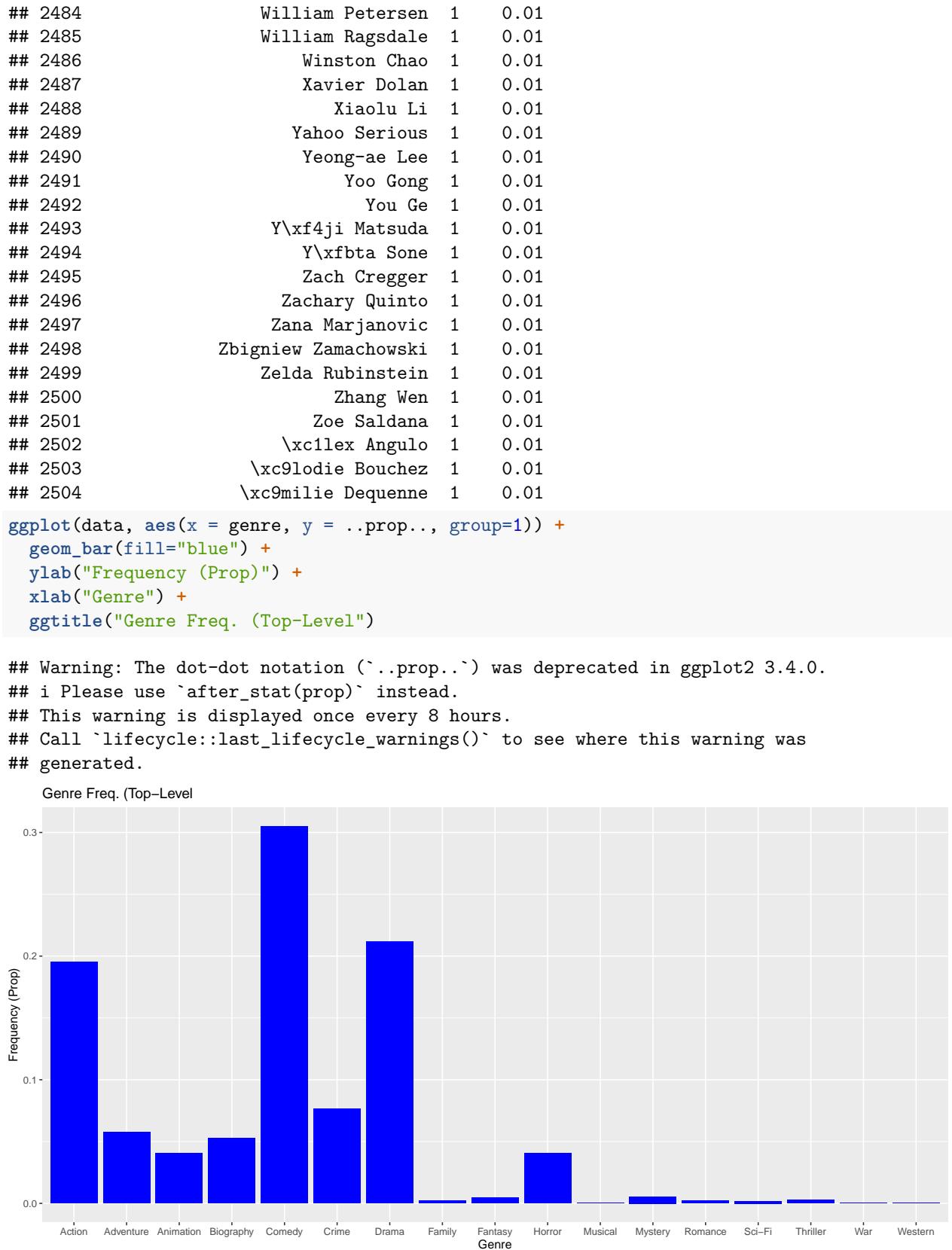
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## 2220	Rufus Sewell	1	0.01
## 2221	Rupert Friend	1	0.01
## 2222	Ruth Negga	1	0.01
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## 2224	Ryan Guzman	1	0.01
## 2225	Ryan Potter	1	0.01
## 2226	Ryan Rajendra Black	1	0.01
## 2227	R\xe9my Girard	1	0.01
## 2228	Sachiko Murase	1	0.01
## 2229	Sadie Frost	1	0.01
## 2230	Saif Ali Khan	1	0.01
## 2231	Sally Kellerman	1	0.01
## 2232	Salman Khan	1	0.01
## 2233	Sam Elliott	1	0.01
## 2234	Sam Jaeger	1	0.01
## 2235	Sam Shepard	1	0.01
## 2236	Sam Waterston	1	0.01
## 2237	Samantha Mathis	1	0.01
## 2238	Samantha Morton	1	0.01
## 2239	Samantha Robinson	1	0.01
## 2240	Sammi Davis	1	0.01
## 2241	Samuel Fr\xf6ler	1	0.01
## 2242	Samuel Le Bihan	1	0.01
## 2243	Sandra H\xfcller	1	0.01
## 2244	Sandra Oh	1	0.01
## 2245	Sara Foster	1	0.01
## 2246	Sara Takatsuki	1	0.01
## 2247	Sarah Bolger	1	0.01
## 2248	Sarah Butler	1	0.01
## 2249	Sarah Drew	1	0.01
## 2250	Sarah Wayne Callies	1	0.01
## 2251	Sarah Wynter	1	0.01
## 2252	Sasha Grey	1	0.01
## 2253	Sasha Lane	1	0.01
## 2254	Sasha Mitchell	1	0.01
## 2255	Saskia Rosendahl	1	0.01
## 2256	Schuyler Fisk	1	0.01
## 2257	Scoot McNairy	1	0.01
## 2258	Scott 'Carrot Top' Thompson	1	0.01
## 2259	Scott Bairstow	1	0.01
## 2260	Scott Eastwood	1	0.01
## 2261	Scott Grimes	1	0.01
## 2262	Scott Lunsford	1	0.01
## 2263	Scott McGinnis	1	0.01
## 2264	Scott Patterson	1	0.01
## 2265	Scott Speedman	1	0.01
## 2266	Scott Weinger	1	0.01
## 2267	Sean Biggerstaff	1	0.01

## 2268	Sean Gullette	1	0.01
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## 2273	Sela Ward	1	0.01
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## 2291	Shari Shattuck	1	0.01
## 2292	Sharon Leal	1	0.01
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## 2296	Shawnee Smith	1	0.01
## 2297	Sheri Moon Zombie	1	0.01
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## 2299	Sheryl Lee	1	0.01
## 2300	Shohreh Aghdashloo	1	0.01
## 2301	Sh\xf4 Aikawa	1	0.01
## 2302	Sian Breckin	1	0.01
## 2303	Sidse Babett Knudsen	1	0.01
## 2304	Sienna Miller	1	0.01
## 2305	Sihung Lung	1	0.01
## 2306	Simon Baker	1	0.01
## 2307	Simon Rex	1	0.01
## 2308	Siobhan Finneran	1	0.01
## 2309	Skyler Shaye	1	0.01
## 2310	Snoop Dogg	1	0.01
## 2311	Solomon Perel	1	0.01
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## 2313	Sonny Bono	1	0.01
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## 2319	Spencer Klein	1	0.01
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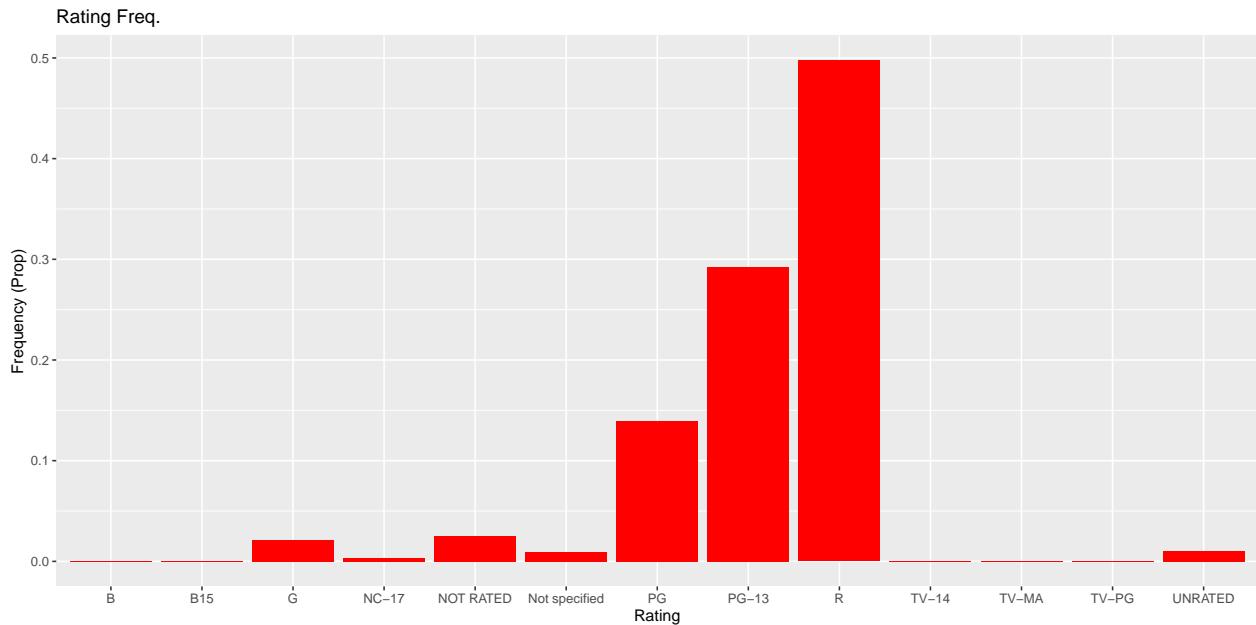
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## 2330	Stephen Dunham	1	0.01
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## 2335	Stephen Spinella	1	0.01
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## 2338	Steve Odekerk	1	0.01
## 2339	Steve Railsback	1	0.01
## 2340	Steven Strait	1	0.01
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## 2342	Stuart Graham	1	0.01
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## 2344	Stéphane Audran	1	0.01
## 2345	Suk-kyu Han	1	0.01
## 2346	Suki Waterhouse	1	0.01
## 2347	Sullivan Stapleton	1	0.01
## 2348	Summer Bishil	1	0.01
## 2349	Suraj Sharma	1	0.01
## 2350	Susanna Hoffs	1	0.01
## 2351	Susie Porter	1	0.01
## 2352	Suzy Amis	1	0.01
## 2353	Sy Richardson	1	0.01
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## 2355	T.I.	1	0.01
## 2356	Tadanobu Asano	1	0.01
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## 2363	Taraneh Alidoosti	1	0.01
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## 2430	Traci Lind	1	0.01
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## 2456	Victoria Justice	1	0.01
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## 2462	Vivian Wu	1	0.01
## 2463	Vivica A. Fox	1	0.01
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## 2472	Wendy Crewson	1	0.01
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## 2474	Wes Ramsey	1	0.01
## 2475	Whip Hubley	1	0.01
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## 2477	Wil Horneff	1	0.01
## 2478	Will Adamsdale	1	0.01
## 2479	Will Forte	1	0.01
## 2480	Will Friedle	1	0.01
## 2481	Will Keenan	1	0.01
## 2482	Will Rogers	1	0.01
## 2483	Willeke van Ammelrooy	1	0.01



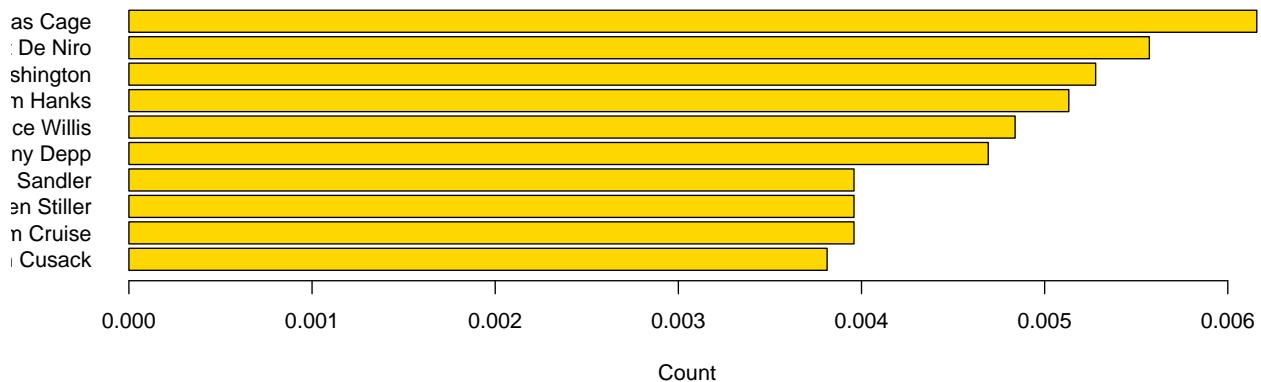
```
ggplot(data, aes(x = rating, y = ..prop.., group=1)) +
  geom_bar(fill="red") +
  ylab("Frequency (Prop)") +
  xlab("Rating") +
  ggtitle("Rating Freq.")
```



```
tab <- table(data$star)
top10 <- sort(tab, decreasing = TRUE)[1:10]
rev_top10 <- rev(top10)
top10_prop <- rev_top10 / sum(tab)
```

```
barplot(top10_prop,
        horiz = TRUE,
        names.arg = names(top10_prop),
        las = 1,
        col = "gold",
        main = "Star Frequencies (Top 10)",
        xlab="Count")
```

Star Frequencies (Top 10)



```

#chi-sq test
chisq.test(table(data$genre, data$rating))

##
## Pearson's Chi-squared test
##
## data: table(data$genre, data$rating)
## X-squared = 2958.2, df = 192, p-value < 2.2e-16
chisq.test(table(data$genre, data$star))

##
## Pearson's Chi-squared test
##
## data: table(data$genre, data$star)
## X-squared = 54953, df = 40048, p-value < 2.2e-16
chisq.test(table(data$rating, data$star))

##
## Pearson's Chi-squared test
##
## data: table(data$rating, data$star)
## X-squared = 48086, df = 30036, p-value < 2.2e-16

#contingency
cntngcy <- function(x, y) {
  tb1 <- table(x,y)
  chi <- chisq.test(tb1)$statistic
  n <- sum(tb1)
  c <- sqrt(chi / (chi + n))
  return(c)
}

cntngcy(data$genre, data$rating)

## X-squared
## 0.5500298
cntngcy(data$genre, data$star)

## X-squared
## 0.9431836
cntngcy(data$rating, data$star)

## X-squared
## 0.9358352

```

LASSO

```

# data
ds <- read.csv("clean_movie_data.csv")
df <- na.omit(ds)

top_stars <- names(sort(table(df$star), decreasing=TRUE))[1:50]
df$star <- ifelse(df$star %in% top_stars, df$star, "Other")

```

```

df$star <- as.factor(df$star)

# response var
y <- df$gross

# predictors
predictors <- df %>% select(-gross, -id)
predictors$genre <- as.factor(predictors$genre)
predictors$rating <- as.factor(predictors$rating)
predictors$star <- as.factor(predictors$star)

# model matrix
X <- model.matrix(~ ., data=predictors)[, -1]

# cv lasso
cv_lasso <- cv.glmnet(x=X, y=y, alpha=1, nfolds = 5, standardize = TRUE)
lamb_min <- cv_lasso$lambda.min
lamb_1se <- cv_lasso$lambda.1se

# coefs at lasso min
coef_lasso <- coef(cv_lasso, s="lambda.min")
coef_lasso[coef_lasso != 0]

## [1] -4.815419e+06 -2.029801e+02  6.068626e-01  7.964810e+07  4.946327e+06
## [6]  8.320606e+07  1.049662e+08  1.433126e+08  9.493952e+07  4.070796e+07
## [11] 1.953281e+07  4.742897e+04  6.950527e+06  3.062243e+06  9.179088e+06
## [16] 7.375750e+07 -1.460862e+06 -1.867837e+06  3.886259e+07  1.000411e+06
## [21] 1.176554e+07  1.208693e+05  2.081149e+07 -4.609474e+06  6.381349e+06
## [26] 3.253645e+06  2.486135e+07 -3.398241e+07  6.720035e+07  1.010064e+07
## [31] -3.132137e+05 -6.383217e+05  4.212392e+06 -1.341435e+07  1.058205e+08
## [36] 3.064660e+08  2.577361e+07  7.291814e+07  5.030174e+07 -1.232567e+08
## [41] 1.341385e+08  3.198914e+07  2.302739e+07  1.706340e+07  5.551628e+07
## [46] 2.419525e+06  2.745185e+07  9.095251e+07  3.271425e+08  4.151830e+07
## [51] 2.776989e+07  3.646713e+04  8.106620e+06  2.976968e+07  4.197811e+06
## [56] 5.923546e+07  7.281805e+07  1.784661e+07  3.831731e+07  1.077631e+07
## [61] 3.801194e+08  4.881423e+07  1.252216e+06  8.186360e+07  2.744950e+07
## [66] 1.279618e+07  1.827440e+08 -6.078743e+06 -1.762075e+08  2.356687e+08
## [71] 4.102920e+04  1.488459e+07  6.409124e+07 -1.159169e+07  6.967795e+06
## [76] 2.509555e+07  3.328000e+06 -6.588606e+06  1.746054e+02  1.511587e+05
## [81] 7.511358e+03 -4.780507e+05  2.602330e+07  2.569653e+07  1.894073e+06
## [86] 7.047260e+07  2.921751e+07  1.141250e+08  2.735795e+06  2.737958e+07
## [91] 2.333241e+07  4.984021e+07 -7.013259e+06  4.470562e+06  2.223311e+05
## [96] 1.839247e+06  8.366205e+05  1.521501e+04

pred <- predict(cv_lasso, newx=X, s="lambda.min")

```