Do G Rated Movies earn Higer/Lower ratings than the R Rated Movies?

April 20, 2015

Abstract

Movies are now one of the easiest and best source of entertainment in today^AZs world. A Movie, also called a motion picture, is a series of still images which, when shown on a screen, creates the illusion of moving images due to the phi-phenomenon. There are variety of movies made, based on the interests, which can be cultural, ction, action, real- life based, animation or horror. We are going to discuss the kids and horror movies, out of which usually the animation movies are for kids based on the cartoon characters and usually ction and imag-inary stories, whereas the horror movies have more of the contents that make the viewer afraid with special e ects and ctitious life threatening characters. Here we are going discuss below on the G and R rated movies and compare its success rate, based on various surveys and observations.

```
> library(ggplot2)
> tablenum <- 3;
> url <- rvest::html("http://www.rottentomatoes.com/top/bestofrt/top_100_horror_movies/?cate
> horror.m <- rvest::html_table(rvest::html_nodes(url,"table")[[tablenum]])
> horror.m <- as.data.frame(horror.m)
> str(horror.m)

data.frame:              100 obs. of      4 variables:
  $ Rank             : num    1 2 3        4 5 6 7 8 9 10 ...
  $ RatingTomatometer: chr     "100%" "97%" "100%" "98%" ...
  $ Title            : chr     "Das Cabinet des Dr. Caligari. (The Cabinet of Dr. Caligari) (192
  $ No. of Reviews   : int     48 62   60 54 41 83 44 66 175 165 ...

> top_horror <- write.csv(horror.m)

"","Rank","RatingTomatometer","Title","No. of Reviews"
"1",1,"100%","Das Cabinet des Dr. Caligari. (The Cabinet of Dr. Caligari) (1920)",48 "2",2,"97%","Nosferatu,
a Symphony of Horror (Nosferatu, eine Symphonie des Grauens) (Nosfer "3",3,"100%","Repulsion
(1965)",60
"4",4,"98%","King Kong (1933)",54
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"5",5,"100%","The Bride of Frankenstein (1935)",41
"6",6,"96%","Psycho (1960)",83 "7",7,"100%","Frankenstein (1931)",44 "8",8,"98%","Rosemarys Baby (1968)",66
"9",9,"98%","Let the Right One In (2008)",175
"10",10,"98%","The Babadook (2014)",165
"11",11,"98%","Aliens (1986)",61 "12",12,"98%","Eyes Without a Face (1962)",50 "13",13,"98%","The Innocents (1961)",43 "14",14,"95%","Pans Labyrinth (2006)",224
"15",15,"98%","Evil Dead 2: Dead by Dawn (1987)",52
"16",16,"95%","It Follows (2015)",155 "17",17,"93%","Gojira (1956)",69 "18",18,"96%","The Birds (1963)",49
"19",19,"96%","Dont Look Now (1973)",48
"20",20,"96%","Night of the Living Dead (1968)",52

"21",21,"96%","Invasion of the Body Snatchers (1978)",46
"22",22,"93%","Freaks (1932)",46
"23",23,"96%","The Evil Dead (1981)",53
"24",24,"96%","Nosferatu: Phantom der Nacht (Nosferatu the Vampyre) (1979)",45
"25",25,"94%","Young Frankenstein (1974)",51

"26",26,"94%","The Silence of the Lambs (1991)",72
"27",27,"94%","Halloween (1978)",51 "28",28,"91%","The Cabin in the Woods (2012)",243 "29",29,"92%","Drag Me to Hell (2009)",238 "30",30,"95%","Suspiria (1977)",41
"31",31,"98%","The Loved Ones (2012)",44
"32",32,"92%","The Shining (1980)",63 "33",33,"94%","A Nightmare on Elm Street (1984)",47 "34",34,"94%","Re-Animator (1985)",47 "35",35,"92%","Carrie (1976)",52
"36",36,"92%","Shaun of the Dead (2004)",200
"37",37,"91%","Dracula (1931)",45

"38",38,"91%","The Texas Chainsaw Massacre (1974)",53
"39",39,"95%","A Girl Walks Home Alone at Night (2014)",74
"40",40,"90%","Zombieland (2009)",233
"41",41,"93%","Room 237 (2013)",121
"42",42,"91%","Eraserhead (1977)",53
"43",43,"91%","What Ever Happened to Baby Jane? (1960)",46
"44",44,"92%","The Host (2007)",146
"45",45,"91%","The Fly (1986)",56 "46",46,"90%","The Wicker Man (1973)",48 "47",47,"90%","Phantom Of The Opera (1925)",41 "48",48,"87%","The Exorcist (1973)",67 "49",49,"90%","Little Shop of Horrors (1986)",49 "50",50,"88%","Let Me In (2010)",219

"51",51,"87%","The Blair Witch Project (1999)",154
"52",52,"87%","Frankenweenie (2012)",198
"53",53,"90%","The Dead Zone (1983)",40
"54",54,"88%","Poltergeist (1982)",56
"55",55,"89%","Misery (1990)",61 "56",56,"87%","28 Days
Later (2003)",219 "57",57,"86%","The Conjuring
(2013)",195
"58",58,"89%","An American Werewolf in London (1981)",46
"59",59,"87%","The Orphanage (2007)",173
"60",60,"89%","Cronos (1994)",47
"61",61,"88%","Near Dark (1987)",48
"62",62,"91%","Donnie Darko: The Directors Cut (2004)",43
"63",63,"89%","Russian Ark (2002)",99 "64",64,"85%","Chronicle
(2012)",166
"65",65,"83%","This Is the End (2013)",206
"66",66,"85%","The Descent (2006)",171
"67",67,"86%","The Omen (1976)",42
"68",68,"88%","Exorcist: The Version Youve Never Seen (2000)",81
"69",69,"86%","Slither (2006)",136
"70",70,"89%","Ginger Snaps (2001)",55 "71",71,"85%","Henry:
Portrait of a Serial Killer (1986)",55 "72",72,"86%","Altered States
(1980)",42 "73",73,"85%","Gremlins (1984)",60
"74",74,"83%","Grindhouse (2007)",191 "75",75,"83%","Paranormal
Activity (2009)",191 "76",76,"87%","A Field in England (2014)",62
"77",77,"86%","The House of the Devil (2009)",94

"78",78,"87%","Dracula: Pages From a Virgins Diary (2003)",60
"79",79,"83%","The Others (2001)",148

"80",80,"85%","We Are What We Are (2013)",81
"81",81,"86%","Willow Creek (2014)",49
"82",82,"86%","Red Riding Trilogy (2010)",57
"83",83,"83%","They Live (1988)",46
"84",84,"85%","Open Your Eyes (Abre los ojos) (Permanent Midnight) (1999)",46
"85",85,"81%","Hellboy (2004)",197

"86",86,"84%","Paprika (2006)",85
"87",87,"84%","Tucker & Dale vs Evil (2011)",96
"88",88,"85%","A Tale of Two Sisters (2003)",59
"89",89,"83%","Berberian Sound Studio (2013)",90
"90",90,"81%","Shadow of the Vampire (2000)",135
"91",91,"81%","Scream 2 (1997)",73

"92",92,"84%","Three...Extremes (Saam gaang yi) (2005)",62
"93",93,"80%","The Thing (1982)",50 "94",94,"81%","Beetlejuice
(1988)",43
"95",95,"79%","1408 (2007)",169
"96",96,"80%","Brick (2006)",137

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"97",97,"80%","Videodrome (1983)",44
"98",98,"82%","Pontypool (2009)",79
"99",99,"81%","Bakjwi (Thirst) (2009)",107
"100",100,"73%","Prometheus (2012)",270

> write.csv(horror.m, file = "top_horror.csv", append = FALSE, quote = TRUE, sep =  ,
+             eol = "\n", na = "NA",dec = ".", row.names = TRUE, col.names = TRUE,
+             qmethod = c("escape", "double"))
> df1<-na.omit(horror.m$RatingTomatometer)
> df1

  [1]  "100%" "97%"  "100%" "98%"  "100%" "96%"  "100%" "98%"  "98%"  "98%"
 [11]  "98%"  "98%"  "98%"  "95%"  "98%"  "95%"  "93%"  "96%"  "96%"  "96%"
 [21]  "96%"  "93%"  "96%"  "96%"  "94%"  "94%"  "94%"  "91%"  "92%"  "95%"
 [31]  "98%"  "92%"  "94%"  "94%"  "92%"  "92%"  "91%"  "91%"  "95%"  "90%"
 [41]  "93%"  "91%"  "91%"  "92%"  "91%"  "90%"  "90%"  "87%"  "90%"  "88%"
 [51]  "87%"  "87%"  "90%"  "88%"  "89%"  "87%"  "86%"  "89%"  "87%"  "89%"
 [61]  "88%"  "91%"  "89%"  "85%"  "83%"  "85%"  "86%"  "88%"  "86%"  "89%"
 [71]  "85%"  "86%"  "85%"  "83%"  "83%"  "87%"  "86%"  "87%"  "83%"  "85%"
 [81]  "86%"  "86%"  "83%"  "85%"  "81%"  "84%"  "84%"  "85%"  "83%"  "81%"
 [91]  "81%"  "84%"  "80%"  "81%"  "79%"  "80%"  "80%"  "82%"  "81%"  "73%"

> df2<- gsub("[:print:]","",horror.m)
> df3<-c(df2)
> df2<-as.numeric(gsub("%","",df1))
> str(df2)

 num [1:100] 100 97 100 98 100 96 100 98 98 98 ...

> df4<-mean(df2)
> tablenum <- 3;
> url <- rvest::html("http://www.rottentomatoes.com/top/bestofrt/top_100_kids__family_movies
> kids.m <- rvest::html_table(rvest::html_nodes(url,"table")[[tablenum]])
> kids.m <- as.data.frame(kids.m)
> str(kids.m)

data.frame:              100 obs. of    4 variables:
  $ Rank             : num    1 2 3    4 5 6 7 8 9   10 ...
  $ RatingTomatometer: chr     "99%"  "98%" "100%" "98%" ...
  $ Title            : chr      "The Wizard of Oz  (1939)" "E.T. The Extra-Terrestrial (1982)" "To
  $ No. of Reviews   : int     107 98 163 43 280    280 238 41        78 306 ...

> top_kids <- write.csv(kids.m)

"","Rank","RatingTomatometer","Title","No. of Reviews"
"1",1,"99%","The Wizard of Oz (1939)",107
"2",2,"98%","E.T. The Extra-Terrestrial (1982)",98
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"3",3,"100%","Toy Story 2 (1999)",163 "4",4,"98%","Snow White and the Seven Dwarfs (1937)",43 "5",5,"99%","Toy Story 3 (2010)",280

"6",6,"98%","Up (2009)",280
"7",7,"99%","Finding Nemo (2003)",238
"8",8,"100%","Pinocchio (1940)",41
"9",9,"100%","Toy Story (1995)",78
"10",10,"96%","Harry Potter and the Deathly Hallows - Part 2 (2011)",306
"11",11,"94%","Its a Wonderful Life (1946)",68
"12",12,"100%","Mary Poppins (1964)",44

"13",13,"96%","The LEGO Movie (2014)",221
"14",14,"96%","Miracle on 34th Street (1947)",46
"15",15,"98%","How to Train Your Dragon (2010)",200
"16",16,"97%","The Incredibles (2004)",231
"17",17,"98%","Paddington (2015)",124
"18",18,"96%","Ratatouille (2007)",230 "19",19,"98%","101 Dalmatians (1961)",45 "20",20,"96%","Fantasia (1940)",50
"21",21,"98%","Who Framed Roger Rabbit (1988)",60
"22",22,"97%","The Iron Giant (1999)",130
"23",23,"97%","Big (1988)",70 "24",24,"97%","Chicken Run (2000)",165 "25",25,"97%","Spirited Away (2001)",177
"26",26,"97%","The Princess Bride (1987)",63
"27",27,"96%","Monsters, Inc. (2001)",192
"28",28,"96%","The Muppets (2011)",206
"29",29,"97%","Babe (1995)",68 "30",30,"100%","About Elly (2015)",40

"31",31,"95%","Wallace & Gromit: The Curse of the Were-Rabbit (2005)",176
"32",32,"98%","The Secret of Roan Inish (1995)",43
"33",33,"96%","Yellow Submarine (1968)",47 "34",34,"94%","The Nightmare Before Christmas (1993)",88 "35",35,"95%","Antz (1998)",88
"36",36,"94%","Hugo (2011)",203
"37",37,"96%","The Straight Story (1999)",89
"38",38,"98%","Song Of The Sea (2014)",57
"39",39,"95%","My Fair Lady (1964)",44
"40",40,"93%","Enchanted (2007)",187
"41",41,"92%","Fantastic Mr. Fox (2009)",224
"42",42,"94%","Aladdin (1992)",66
"43",43,"91%","Bambi (1942)",46
"44",44,"91%","Harry Potter and the Prisoner of Azkaban (2004)",249
"45",45,"90%","Coraline (2009)",256
"46",46,"92%","How to Train Your Dragon 2 (2014)",159
"47",47,"93%","Jason and the Argonauts (1963)",40
"48",48,"92%","The Little Mermaid (1989)",65

"49",49,"93%","James and the Giant Peach (1996)",72
"50",50,"89%","Frozen (2013)",214 "51",51,"93%","Spy Kids
(2001)",126 "52",52,"92%","Ponyo (2009)",159

"53",53,"92%","A Bugs Life (1998)",84
"54",54,"92%","Princess Mononoke (1999)",105
"55",55,"92%","Arthur Christmas (2011)",157
"56",56,"93%","My Neighbor Totoro (1988)",43
"57",57,"93%","Beauty and the Beast (2012)",103
"58",58,"88%","Harry Potter and the Goblet of Fire (2005)",246
"59",59,"90%","Tangled (2010)",215
"60",60,"93%","That Thing You Do! (1996)",54
"61",61,"89%","Big Hero 6 (2014)",186
"62",62,"93%","LHeure d ACAI'tACAI' (Summer Hours) (2009)",101
"63",63,"93%","First Position (2012)",70
"64",64,"93%","Lassie (2006)",68 "65",65,"88%","Shrek
2 (2004)",232 "66",66,"93%","Duma (2005)",61
"67",67,"88%","Rango (2011)",212
"68",68,"87%","Kung Fu Panda (2008)",177
"69",69,"88%","Ben-Hur (1959)",42
"70",70,"90%","Winnie the Pooh (2011)",126
"71",71,"90%","The Karate Kid (1984)",42
"72",72,"87%","Shrek (2001)",190 "73",73,"89%","The
Muppet Movie (1979)",44 "74",74,"88%","A Christmas
Story (1983)",52 "75",75,"85%","The Sound of Music
(1965)",55 "76",76,"90%","The Lion King (2011)",110
"77",77,"91%","The Secret of Kells (2010)",79
"78",78,"87%","ParaNorman (2012)",163
"79",79,"87%","Howls Moving Castle (2005)",172

"80",80,"84%","Harry Potter and the Half-Blood Prince (2009)",263
"81",81,"87%","Millions (2005)",158
"82",82,"88%","Freaky Friday (2003)",148
"83",83,"86%","Wreck-it Ralph (2012)",168
"84",84,"87%","Field of Dreams (1989)",54 "85",85,"87%","Cloudy
With a Chance of Meatballs (2009)",139 "86",86,"85%","The Princess
and the Frog (2009)",184 "87",87,"89%","Bears (2014)",56

"88",88,"83%","Charlie and the Chocolate Factory (2005)",221
"89",89,"86%","Mulan (1998)",73
"90",90,"85%","Bridge to Terabithia (2007)",157
"91",91,"85%","The Emperors New Groove (2000)",127
"92",92,"84%","Elf (2003)",185
"93",93,"83%","Tim Burtons Corpse Bride (2005)",187
"94",94,"86%","Anastasia (1997)",51

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"95",95,"86%","The Parent Trap (1998)",50
"96",96,"82%","Harry Potter and the Chamber of Secrets (2002)",229
"97",97,"86%","Fly Away Home (1996)",44
"98",98,"84%","Akeelah and the Bee (2006)",136
"99",99,"84%","Puss in Boots (2011)",142
"100",100,"85%","The Secret Garden (1993)",40

> write.csv(kids.m, file = "top_kids.csv", append = FALSE, quote = TRUE, sep = ,
+                eol = "\n", na = "NA",dec = ".", row.names = TRUE, col.names = TRUE,
+                qmethod = c("escape", "double"))
> df5<-na.omit(kids.m$RatingTomatometer)
> df5

  [1]  "99%"  "98%"  "100%" "98%"  "99%"  "98%"  "99%"  "100%" "100%" "96%"
 [11]  "94%"  "100%" "96%"  "96%"  "98%"  "97%"  "98%"  "96%"  "98%"  "96%"
 [21]  "98%"  "97%"  "97%"  "97%"  "97%"  "97%"  "96%"  "96%"  "97%"  "100%"
 [31]  "95%"  "98%"  "96%"  "94%"  "95%"  "94%"  "96%"  "98%"  "95%"  "93%"
 [41]  "92%"  "94%"  "91%"  "91%"  "90%"  "92%"  "93%"  "92%"  "93%"  "89%"
 [51]  "93%"  "92%"  "92%"  "92%"  "92%"  "93%"  "93%"  "88%"  "90%"  "93%"
 [61]  "89%"  "93%"  "93%"  "93%"  "88%"  "93%"  "88%"  "87%"  "88%"  "90%"
 [71]  "90%"  "87%"  "89%"  "88%"  "85%"  "90%"  "91%"  "87%"  "87%"  "84%"
 [81]  "87%"  "88%"  "86%"  "87%"  "87%"  "85%"  "89%"  "83%"  "86%"  "85%"
 [91]  "85%"  "84%"  "83%"  "86%"  "86%"  "82%"  "86%"  "84%"  "84%"  "85%"

> df6<- gsub("[:print:]","",kids.m)
> df7<-c(df6)
> df6<-as.numeric(gsub("%","",df5))
> str(df6)

 num [1:100] 99 98 100 98 99 98 99 100 100 96 ...

> df8<-mean(df6)
> data1<-(c("Horror","Kids"))
> data1

[1] "Horror" "Kids"

> data2<-(c(df4,df8))
> data2

[1] 89.59 92.05

> abc=data.frame(genre=factor(data1, levels=data1), rating=data2)
> ggplot(data=abc, aes(x=genre, y=rating,fill=genre))+geom_bar(stat="identity")+ggtitle("Ose
>
```
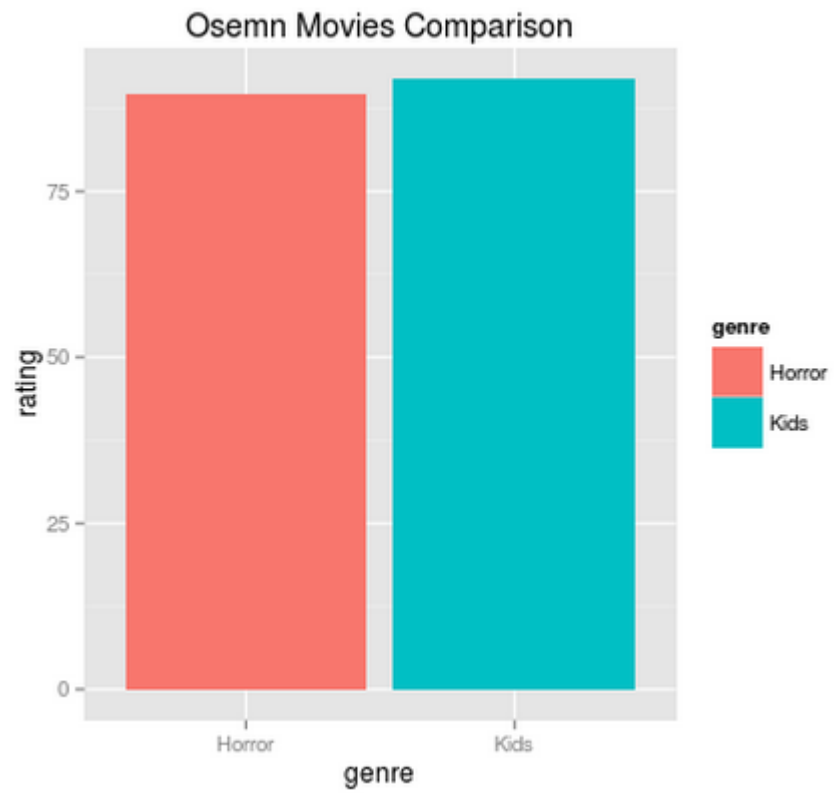
Result - The result from the graph shows that the Kids Movie, which is a G Rated Movies have more viewers and ratings, as compared to the R Rated Horror Movies.