Creative Technology
Module 8
Data: From Source to Senses

Data Visualization Final Project
Disney

SIX DWARFS

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Aleksandra Kaczmarek
Subtopic: Disney movies and genres
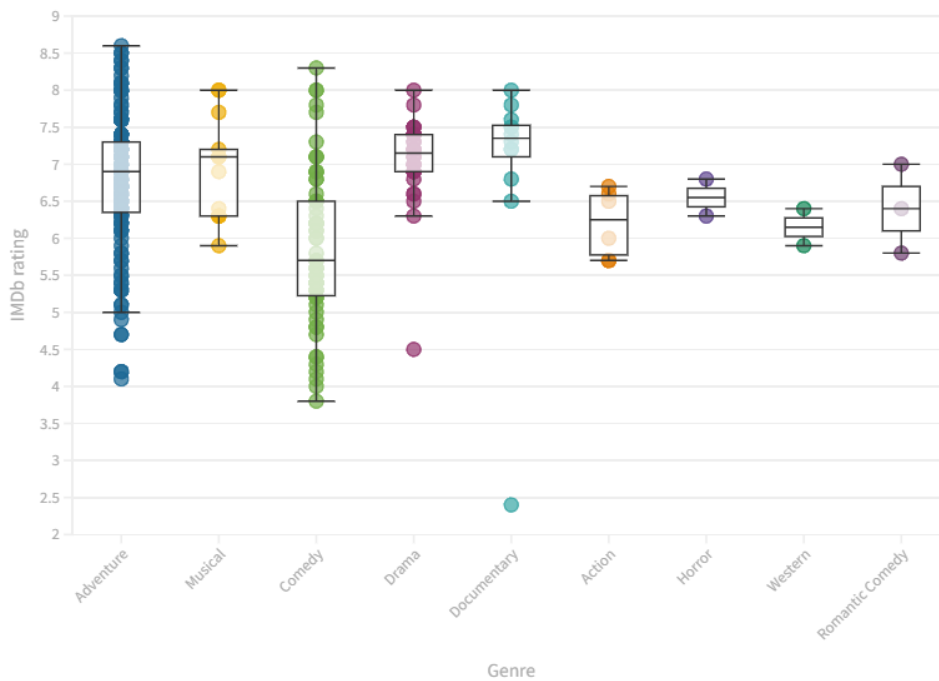Movies, genre, budget, IMDb ratings, running time
Source:
https://www.kaggle.com/datasets/dikshabhati2002/walt-disney-movies?resource=download
combined with:
https://data.world/kgarrett/disney-character-success-00-16/workspace/file?filename=disney_movies_by_gross.png

Viz 1:

IMDb rating per Disney movie genres

This visualization shows what are the ratings for different Disney movies genres. This database contains films released between 1937 and 2020. However, for this graph, only films with a rating are included.

Viz 2:

Movies by bugdet (135,000,000$ - 410,600,0000$) and their genre

genre
- Action
- Adventure
- Comedy

WALL-E
Toy Story 3 Mars Needs Moms   Zootopia
Big Hero 6 Lady and the Tramp Incredibles 2 Aladdin
Monsters University Alice in Wonderland Ratatouille Wreck-It Ralph
Pirates of the Caribbean: The Curse of the Black Pearl G-Force   Meet the Robinsons
Cars 3 Ralph Breaks the Internet Pirates of the Caribbean: Dead Man's Chest
Up Tron: Legacy The Chronicles of Narnia: The Lion, the Witch and the Wardrobe Coco
Frozen II Pirates of the Caribbean: On Stranger Tides Chicken Little
Maleficent: Mistress of Evil Pirates of the Caribbean: At World's End
The Chronicles of Narnia: Prince Caspian Dumbo Alice Through the Looking Glass
Inside Out Prince of Persia: The Sands of Time The Good Dinosaur   Mulan The BFG
John Carter The Sorcerer's Apprentice Toy Story 4 Brave Soul
Bolt A Christmas Carol Treasure Planet Frozen
Tangled Cars 2

Title. Color shows details about genre. Size shows Budget. The data is filtered on Budget, which ranges from
135000000 to 410600000.

The second visualization illustrates what is the budget for Disney movies by genre. The
selected budget is in the range from 135000000$ - 4106000000$.

Viz 3:
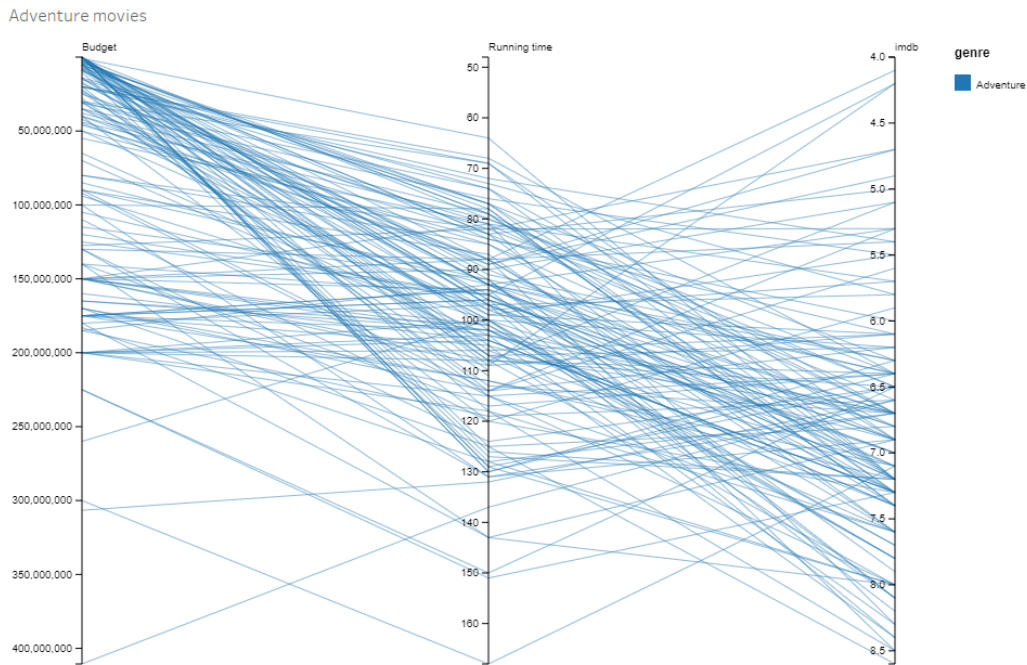
Adventure movies

The third visualization focuses on the most numerous genre of Disney films, which is Adventure. This visualization aims to show correlation between a budget, running time and IMDb ratings for Disney movies in this genre.
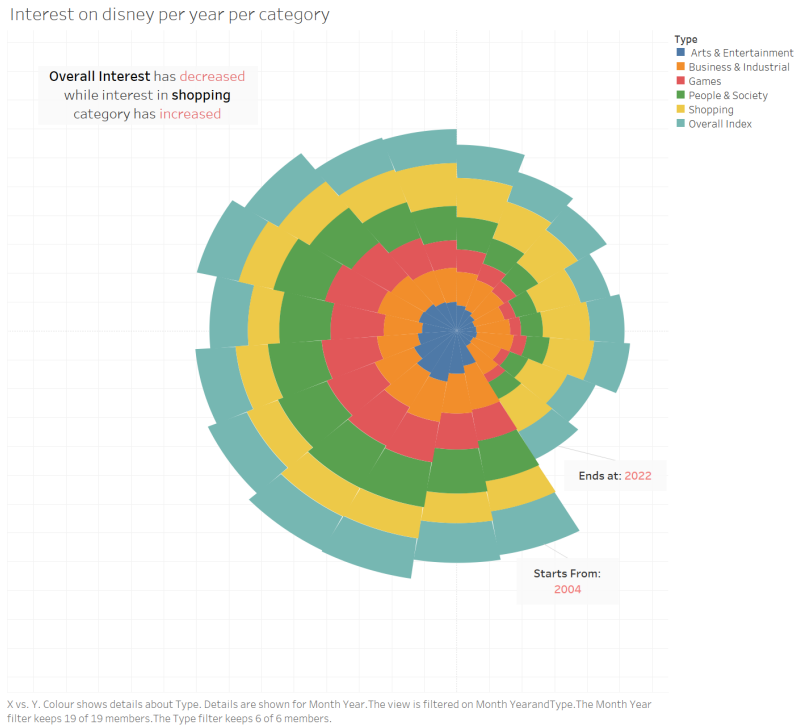
Ari Lee

Subtopic: Trends

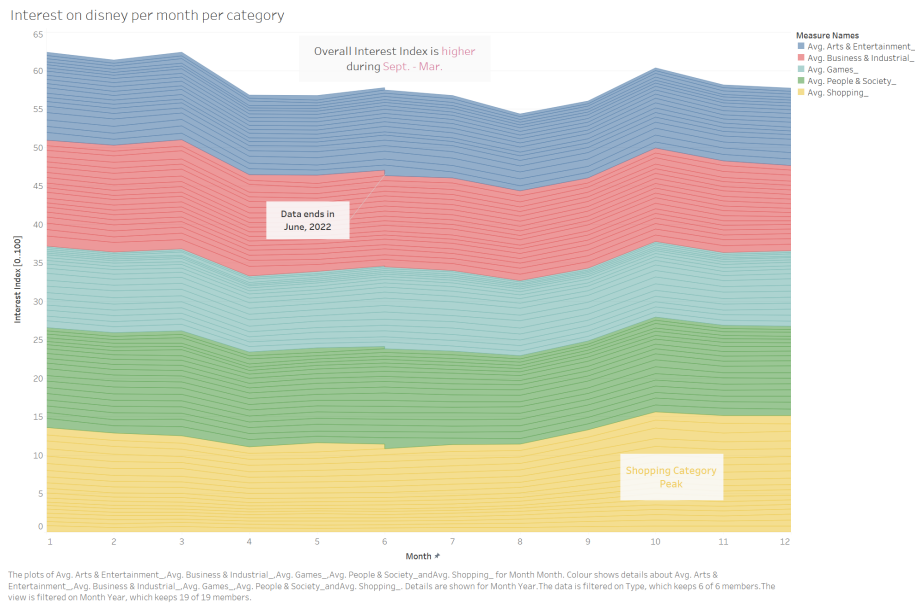Google Trends search, interest index, rising entities

https://trends.google.com/trends/explore?date=all&q=Disney, with different time range

Coxcomb plot was made by adjusting the tutorials from Link 1, Link 2, Link 3.

Viz 1:

Viz 2:

Viz 3:

Rising entity per quartile

Q1
Disney land, marathon, outdoor activity-related
Q2
movie-related, holloween
Q3
Halloween-related, costume, christmas
Q4
Christmas-related, ornament, shop, pajamas, gift

QuartileandEntity. Colour shows details about Quartile. Size shows Count_Entity. The marks are labelled by QuartileandEntity. The view is filtered on Quartile, which keeps Q1,Q2,Q3andQ4.

Visualizing the above graph using filter to show the trend per quartile fits more to the intention, therefore, added four graphs showing the trend per quartile below.

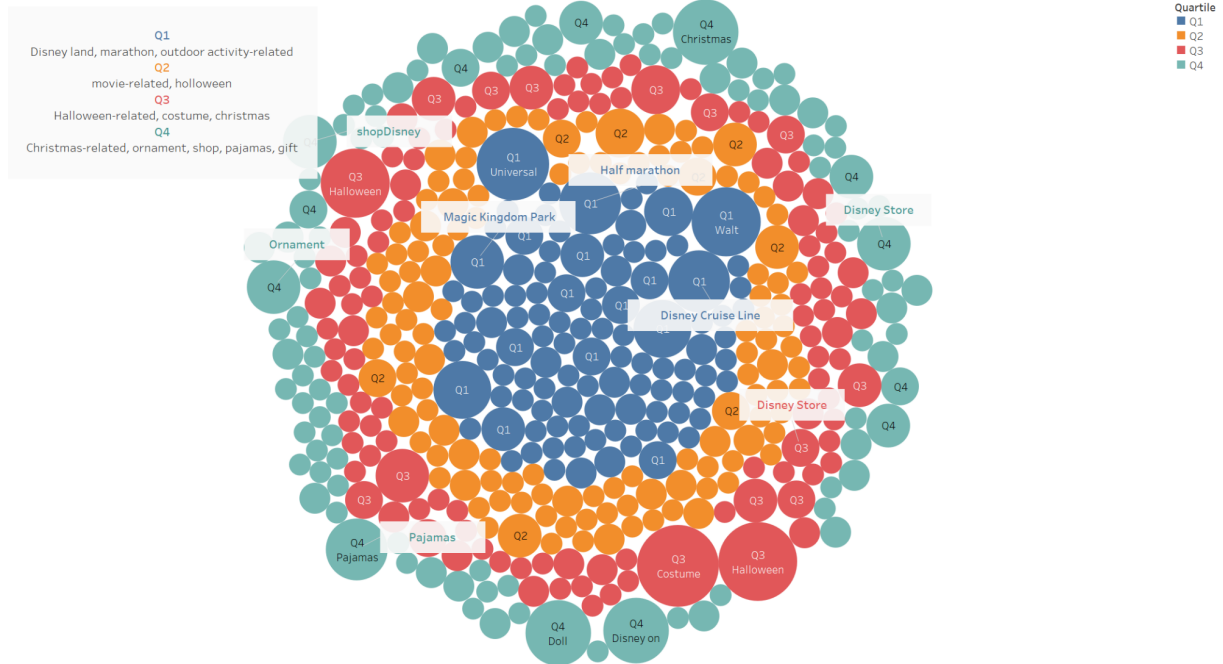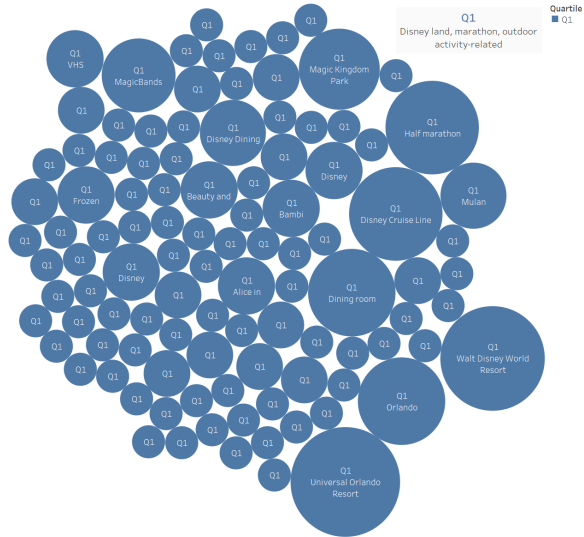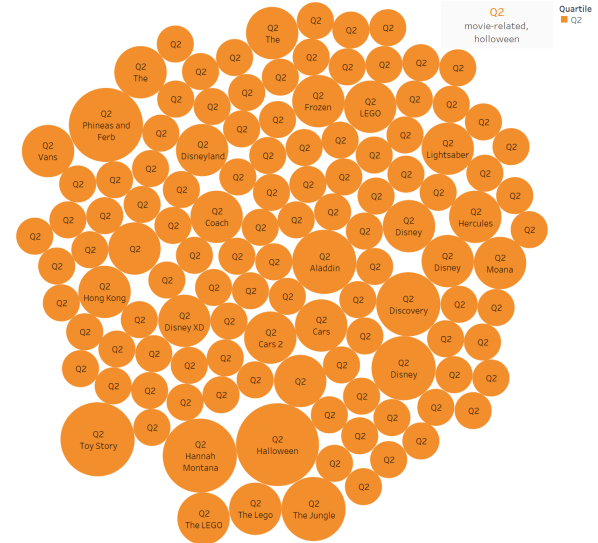### Rising entity Q1

QuartileandEntity. Colour shows details about Quartile. Size shows Count_Entity. The marks are labelled by QuartileandEntity. The view is filtered on Quartile, which keeps Q1.

Rising entity Q2

QuartileandEntity. Colour shows details about Quartile. Size shows Count_Entity. The marks are labelled by QuartileandEntity. The view is filtered on Quartile, which keeps Q2.

Rising entity Q3

Q3
Halloween-related, costume, christmas

Quartile
■ Q3

QuartileandEntity. Colour shows details about Quartile. Size shows Count_Entity. The marks are labelled by QuartileandEntity.The view is filtered on Quartile, which keeps Q3.

Rising entity Q4

Q4
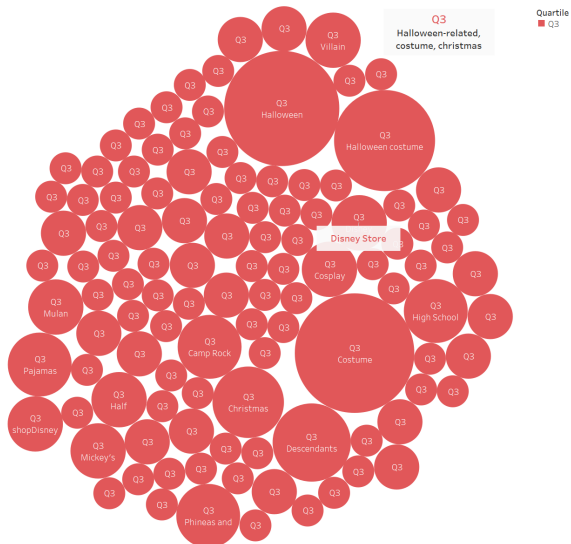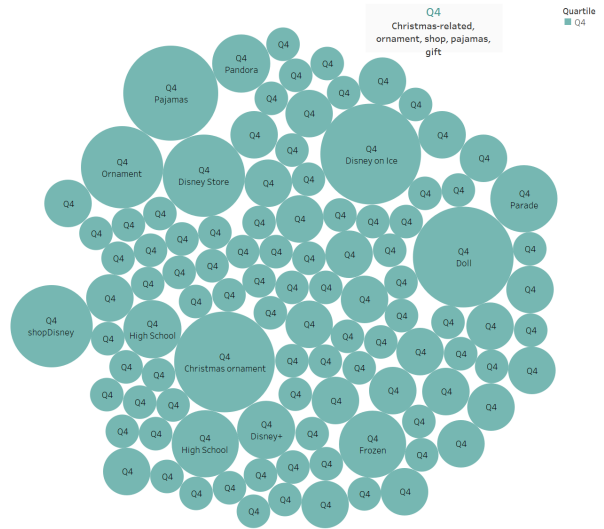Christmas-related, ornament, shop, pajamas, gift

Quartile
■ Q4

QuartileandEntity. Colour shows details about Quartile. Size shows Count_Entity. The marks are labelled by QuartileandEntity.The view is filtered on Quartile, which keeps Q4.

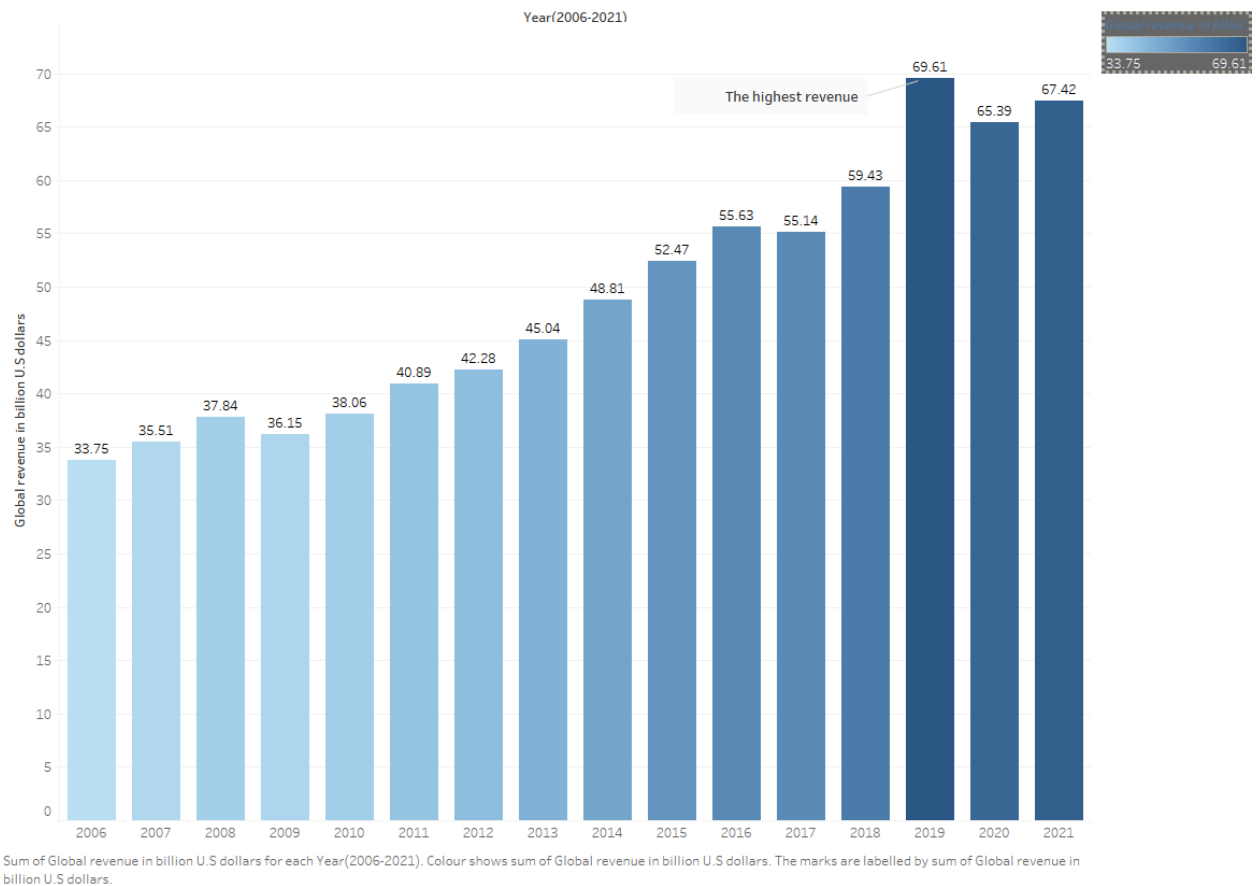**Joonsoo Ahn**

Subtopic: Revenue

Source: **• Walt Disney revenue worldwide 2021 | Statista**

• Walt Disney revenue by segment | Statista

• Walt Disney revenue by region | Statista

Viz 1
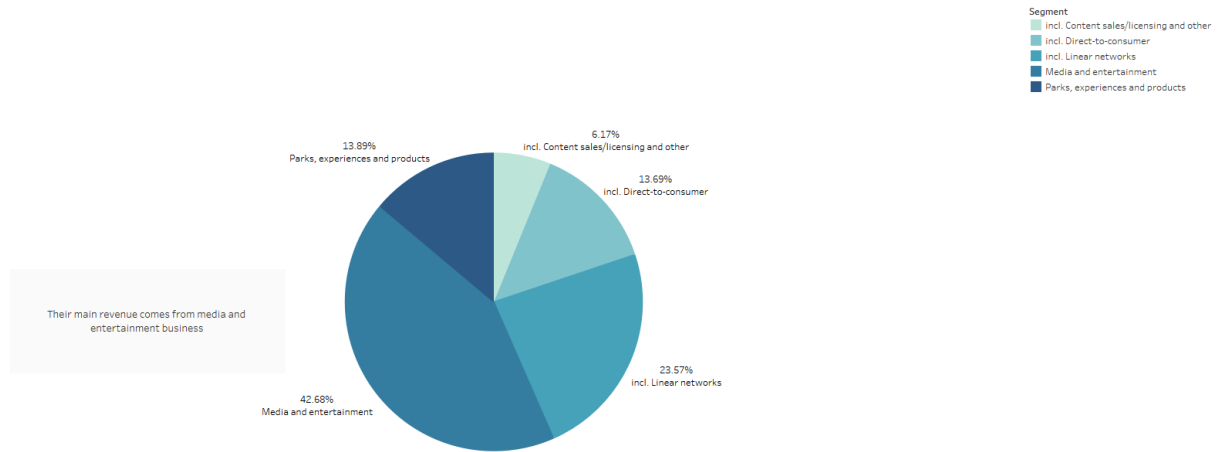

Global revenue of the Walt Disney Company in the fiscal years 2006 to 2021 (in billion U.S. dollars), the darker the color of the bar, the higher the revenue.

Viz 2

Composition of revenue in 2021

Segment
- incl. Content sales/licensing and other
- incl. Direct-to-consumer
- incl. Linear networks
- Media and entertainment
- Parks, experiences and products

6.17%
incl. Content sales/licensing and other

13.89%
Parks, experiences and products

13.69%
incl. Direct-to-consumer

Their main revenue comes from media and entertainment business

23.57%
incl. Linear networks

42.68%
Media and entertainment

% of Total RevenueandSegment. Colour shows details about Segment. The marks are labelled by % of Total RevenueandSegment.The view is filtered on Segment, which keeps incl. Content sales/licensing and other,incl. Direct-to-consumer,incl. Linear networks,Media and entertainmentandParks, experiences and products.

By showing the total revenue in 2021 as a ratio, you can see how much which businesses earn respectively.

Viz 3

Revenue of the Walt Disney Company from 2010 to 2021, by region

Revenue(in million U.S dollars)
- 16,489
- 100,000
- 200,000
- 300,000
- 382,097

Region
- Asia
- Europe
- North America
- South America

80,731
Europe

382,097
North America

54,666
Asia

More than half of the total revenue comes from North America.

16,489
South America

© OpenStreetMap

Map based on Longitude and Latitude. Colour shows details about Region. Size shows sum of Revenue(in million U.S dollars). The marks are labelled by sum of Revenue(in million U.S dollars)andRegion.

Visualization of what region and how much revenue has been made in the last decade.

Luuk Welling
Subtopic: Gender diversity
Male dialogue by film, Female dialogue by film, release date, movie title
Source: https://pudding.cool/2017/03/film-dialogue/, imdb.com

Viz 1:

Distribution of movie dialogue by year
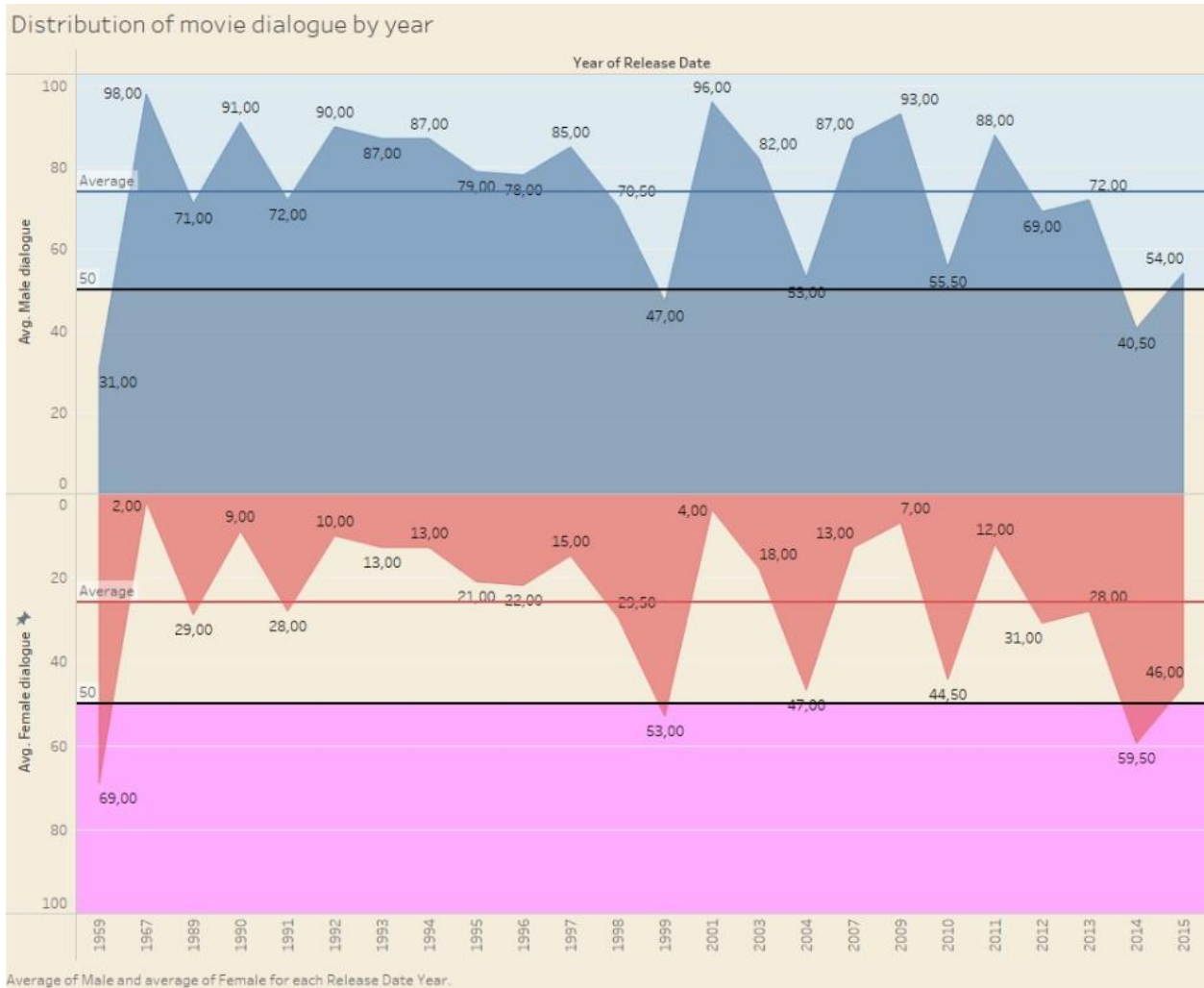
Viz 2

Movies by gender distribution
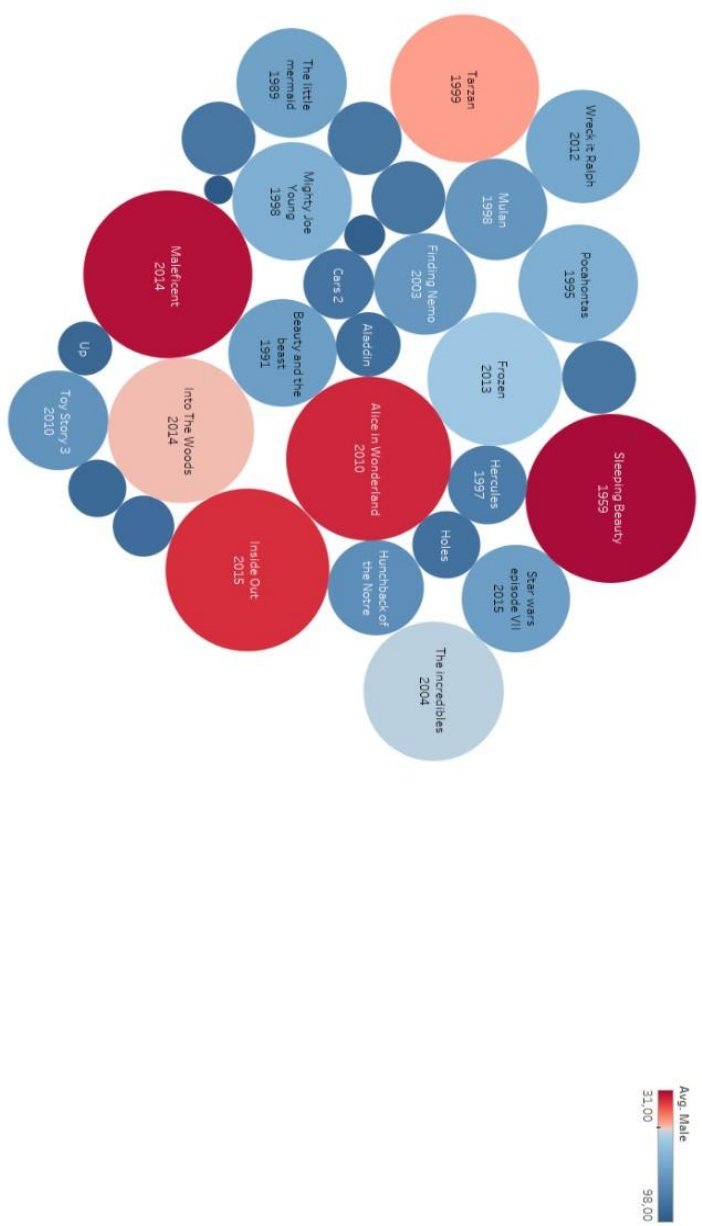
Title and Release Date Year. Color shows average of Male (actual & forecast). Size shows average of Female (actual & forecast). The marks are labelled by Title and Release Date Year. Details are shown for Forecast indicator.

Avg. Male
31.00 ▮▮▮▮▮ 98.00

Viz 3

Dialogue distribution (%) in 31 disney movies by gender

Female

0   5   10   15   20   25   30   35   40   45   50   55   60   65   70
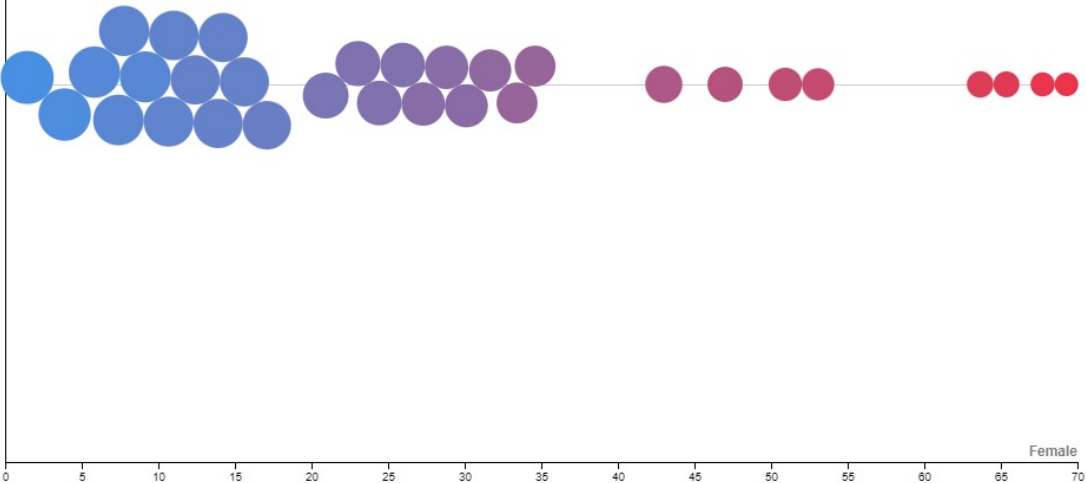
Yelim Kim
Subtopic: Behind the scene

Data source :

Viz1: Budget per Movies

Budget per Movies order by Release Date for Animated Movies
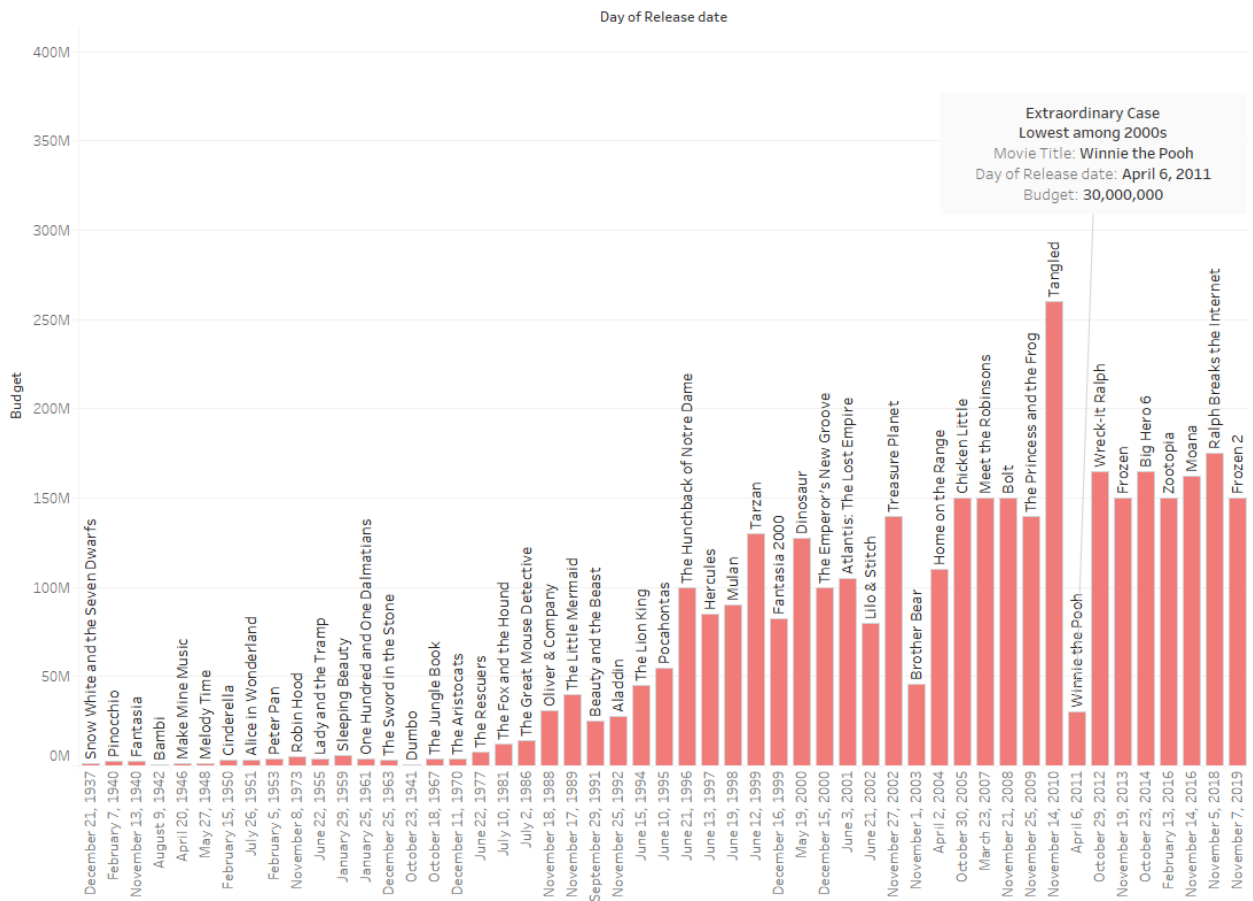
Budget per Movies for Animated Moive

Tangled November 2010	Bolt November 2008	Zootopia February 2016	The Princess and the Frog November 2009	Treasure Planet November 2002	Tarzan June 1999	**Budget**

Movie with Highest Budget
Title: Tangled
Month of Release date:
November 2010
Budget: 260,000,000

Movie with Lowest Budget
Title: Bambi
Month of Release date:
August 1942
Budget: 858,000

Chicken Little
October 2005

Ralph Breaks the Internet
November 2018

Dinosaur
May 2000

The Hunchback of
Notre Dame
June 1996

Mulan
June 1998

Hercules
June 1997

Frozen
November 2013

Big Hero 6
October 2014

Home on the Range
April 2004

Fantasia 2000
December 1999

Brother
Bear
November
2003

The Lion
King
June 1994

The Little
Mermaid

Frozen 2
November 2019

Wreck-It Ralph
October 2012

Atlantis: The Lost Empire
June 2001

Lilo & Stitch
June 2002

Oliver &
Company
November

Beauty
and the
Beast

Winnie the
Pooh
April 2011

Meet the Robinsons
March 2007

Moana
November 2016

The Emperor's New Groove
December 2000

Pocahontas
June 1995

Aladdin
November

Budget: 858,000 — 260M

Movie TitleandRelease date Month. Colour shows sum of Budget. Size shows sum of Budget. The marks are labelled by Movie TitleandRelease date Month.The view is filtered on Movie Title, which excludes 6 members.

Disney's animated movie budgets have shown a trend of increasing over time. However, it does not show a continuous increasing trend. The budget for animated films has not increased significantly since the 2000s. In the graph below, all the movies classified in blue are from the 2000s. Most of the films classified in red are from the early 2000s or earlier.

Viz2: Total Budget Flow per Directors, Movies for Animated Movies

Total Budget Flow per Directors, Movies for Animated Movies

Directors   Movies

Director: **Total budget**
Flow Size: **12%**
Director with the 2nd highest budget

Total
Budget

Director : **Ron Clements**
Flow Size : **17%**
Director with the highest budget

Directors

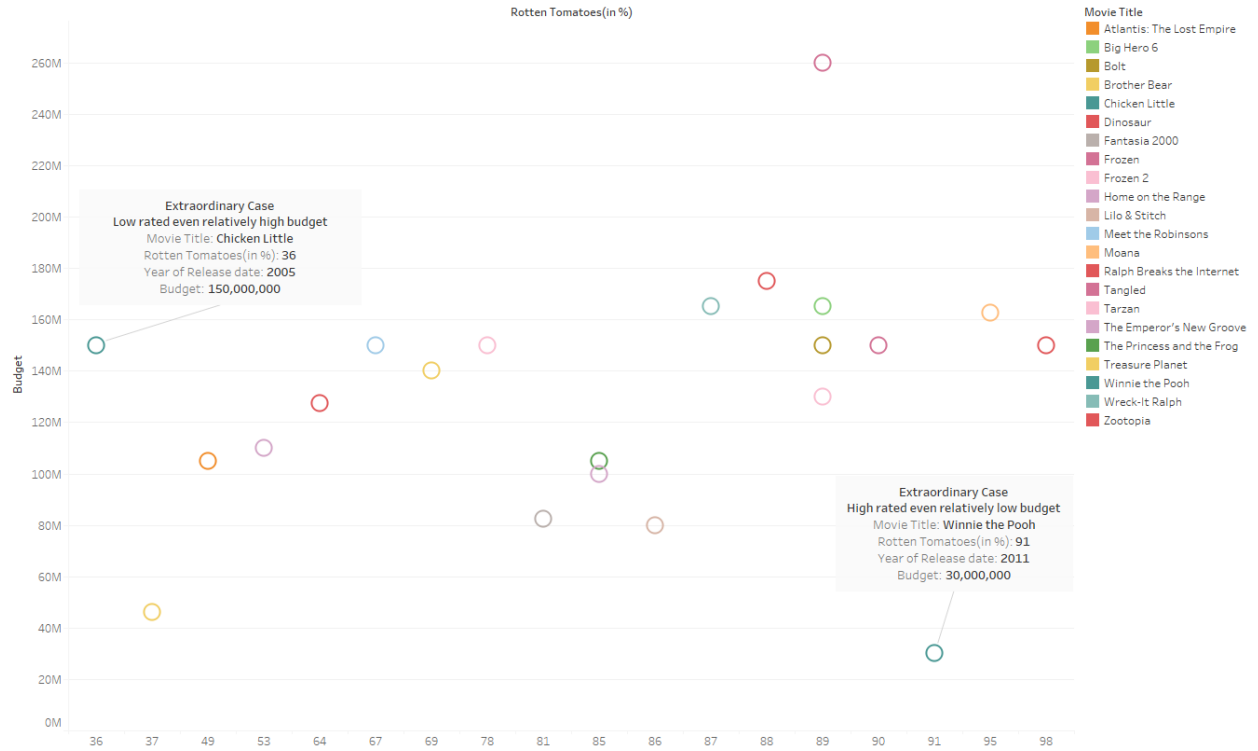|	
Art Stevens	Jack Kinney
Barry Cook	Mark Dindal
Ben Sharpsteen	Mike Gabriel
Byron Howard	Nathan Greno
Chris Buck	Ralph Zondag
Chris Sanders	Rich Moore
Chris Williams	Robert Walker
Clyde Geronimi	Roger Allers
David Hand	Ron Clements
Don Hall	Stephen J. Ande..
full credits	Ted Berman
Gary Trousdale	Wilfred Jackson
George Scribner	Will Finn
Hamilton Luske	Wolfgang Reith..

Movies

101 Dalmatians	Chicken Little	Home on the Ra..	Peter Pan	The Aristocats	The Princess an..
Aladdin	Cinderella	Lady and the Tr..	Pinocchio	The Black Cauld..	The Sword in th..
Alice in Wonder..	Dinosaur	Lilo & Stitch	Pocahontas	The Emperor's ..	Treasure Planet
Atlantis: The Lo..	Dumbo	Make Mine Music	Ralph Breaks th..	The Fox and the ..	Winnie the Pooh
Bambi	Fantasia	Meet the Robin..	Robin Hood	The Great Mous..	Wreck-It Ralph
Beauty and the ..	Fantasia 2000	Melody Time	Sleeping Beauty	The Hunchback ..	Zootopia
Big Hero 6	Frozen	Moana	Snow White an..	The Jungle Book	
Bolt	Frozen 2	Mulan	Tangled	The Lion King	
Brother Bear	Hercules	Oliver & Compa..	Tarzan	The Little Merm..	

Sankey chart :

http://tableauwiki.com/create-sankey-chart-tableau-korea-department-sales/

Viz3: Correlation between Budget and Rotten tomato after 1999 for Animated Movie

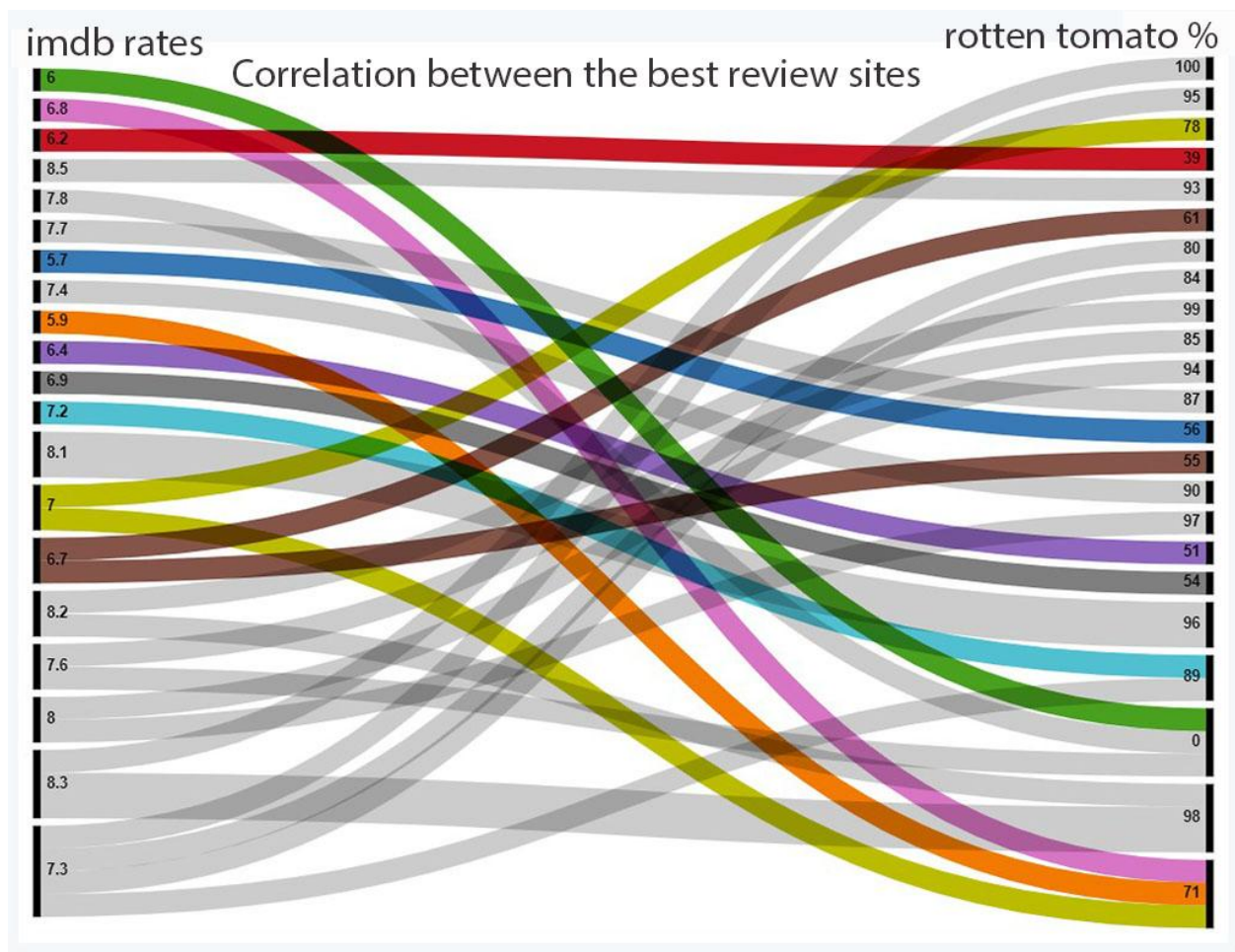Correlation between Budget and Rotten tomato after 1999 for Animated Movie

Rotten Tomatoes(in %)

Movie Title
- Atlantis: The Lost Empire
- Big Hero 6
- Bolt
- Brother Bear
- Chicken Little
- Dinosaur
- Fantasia 2000
- Frozen
- Frozen 2
- Home on the Range
- Lilo & Stitch
- Meet the Robinsons
- Moana
- Ralph Breaks the Internet
- Tangled
- Tarzan
- The Emperor's New Groove
- The Princess and the Frog
- Treasure Planet
- Winnie the Pooh
- Wreck-It Ralph
- Zootopia

Extraordinary Case
Low rated even relatively high budget
Movie Title: Chicken Little
Rotten Tomatoes(in %): 36
Year of Release date: 2005
Budget: 150,000,000

Extraordinary Case
High rated even relatively low budget
Movie Title: Winnie the Pooh
Rotten Tomatoes(in %): 91
Year of Release date: 2011
Budget: 30,000,000

Sum of Budget for each Rotten Tomatoes(in %). Colour shows details about Movie Title. Details are shown for Release date Year. The data is filtered on Release date, which keeps 57 members. The view is filtered on Exclusions (Movie Title,Rotten Tomatoes(in %)),sum of BudgetandRelease date Year. The Exclusions (Movie Title,Rotten Tomatoes(in %)) filter keeps 57 members. The sum of Budget filter keeps non-Null values only. The Release date Year filter keeps 18 of 50 members.

Gracy Nedev
**Subtopic: reviews**

Viz 1

In the imdb rates everybody can leave a review, while rotten tomato shows if a movie is fresh if its percentage is above 60 %, which opinion is based on film watchers and critics consensus.

Source: https://www.imdb.com/title/tt0105935/ratings/?ref_=tt_ov_rt
https://www.rottentomatoes.com/guides/best_disney_animated_movies/
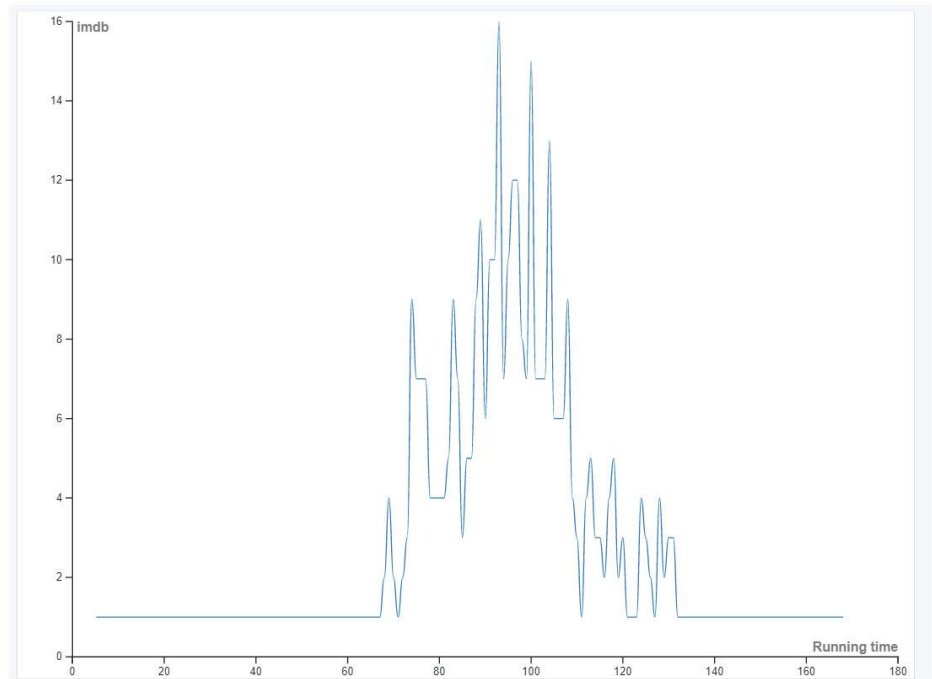
Viz 2

Amount of reviews against the average rating
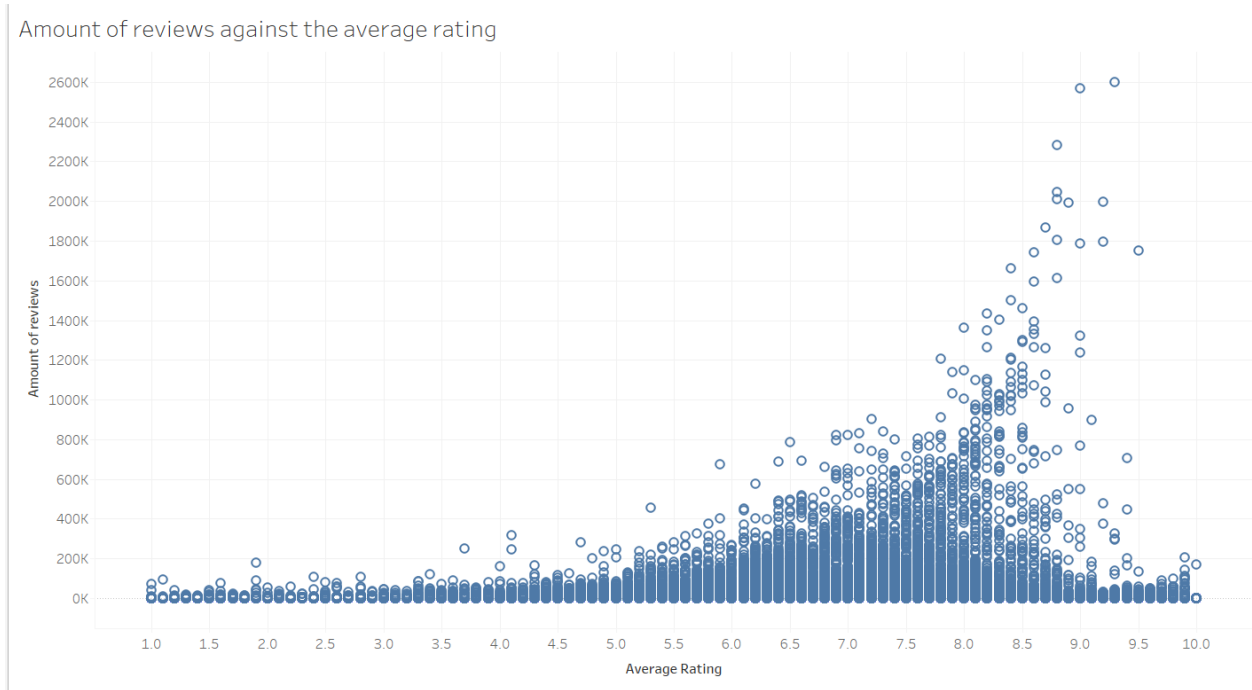
Dataset from the imdb site is used:

Viz 3
Correlation between imdb rates and running time
Running time in minutes

correlation between imdb rates and running time

Dataset from the imdb site is used: https://www.imdb.com