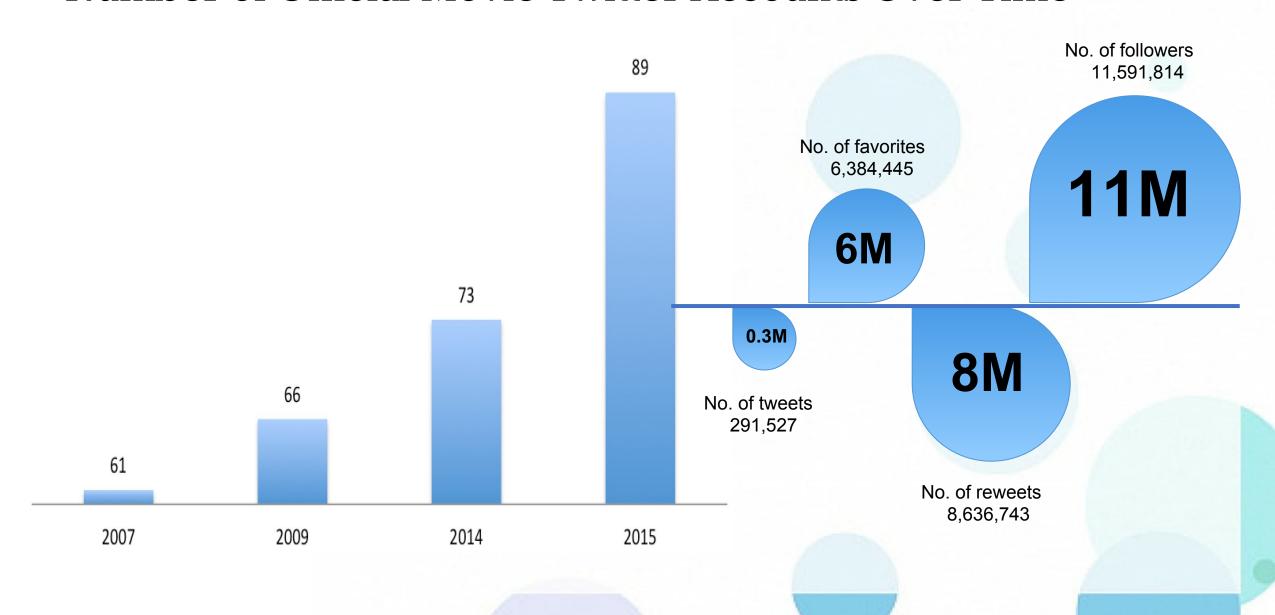


Movie Promotions on Twitter

Hoang Duong Trong ♦ Cenzhuo Yao ♦ Lu Zhang Luyun Zhao ♦ Sicun Huang ♦ Thibault Doutre

Number of Official Movie Twitter Accounts Over Time



Data Sources

Top Grossing Movies of 2015 MPAA 2015 Gross 1 Star Wars Ep. VII: The Force Awakens 12/18/2015 Walt Disne PG-13 \$742,208,942 88,043,765 2 Jurassic World 6/12/2015 Universal PG-13 \$652,198,010 77,366,311 3 The Avengers: Age of Ultro 5/1/2015 Walt Disney Action PG-13 \$459,005,868 54,449,094 4 Inside Out 6/19/2015 Walt Disney \$356,461,711 42,284,900 5 Furious 7 4/3/2015 Universal \$351,032,910 41,640,914 6 American Snipe 12/25/2014 Warner Bros \$347,897,084 41.268.930 Drama 7 Minions 7/10/2015 Universal \$336,045,770 39.863.080 ngjay 11/20/2015 Lionsgate \$274,185,395 32,524,957 - Part 2 26,798,429 9 The Martia 10/2/2015 20th Century Fox \$225,910,757 10 Cinderella 3/13/2015 Walt Disney \$201,151,353 23,861,370 11/6/2015 Sony Pictures PG-13 \$197,833,291 11 Spectre Action 23,467,768 12 Mission: Impossible - Roque 7/31/2015 Paramount Pictures PG-13 \$195.042.377 23.136.699 Action 13 Pitch Perfect 2 5/15/2015 Universal \$183,785,415 21,801,354 7/17/2015 Walt Disney \$180,202,163 21,376,294 14 Ant-Man Action PG-13 15 Home 3/27/2015 20th Century Fox Adventure \$177.397.510 21.043.595 16 Hotel Transylvania 2 9/25/2015 Sony Pictures \$168,774,344 20,020,681 17 Fifty Shades of Grey 2/13/2015 Universal Drama \$166,167,230 19,711,415 18 The SpongeBob Movie: Sponge 2/6/2015 Paramount Pictures Comedy \$162,994,032 19,334,997 19 Straight Outta Compto \$161,058,685 20 San Andreas 5/29/2015 Warner Bros. Adventure PG-13 \$155,190,832 18,409,351 21 Mad May: Fury Road 5/15/2015 Warner Bros Action \$153 636 354 18 224 953 22 The Rocky Horror Picture Show 9/26/1975 20th Century Fox \$140,219,772 16,633,424 23 The Divergent Serires: 3/20/2015 Lionsgate \$130,179,072 15,442,357 24 The Peanuts Movie 11/6/2015 20th Century Fox \$128,763,058 15,274,384 2/13/2015 20th Century Fox \$114,766,932 13,614,108 26 The Good Dinosau 11/25/2015 Walt Disney Adventure 27 Spy! 6/5/2015 20th Century Fox Comedy \$110.825.712 13 146 585 28 Trainwreck 7/17/2015 Universal \$110,038,130 13,053,158 29 Creed 11/25/2015 Warner Bros. PG-13 \$103,122,271 12,232,772 Drama

12/25/2015 Paramount Pictures

Comedy

PG-13

\$93,889,861 11,137,587

the-numbers.com 2015 top-grossing-movies



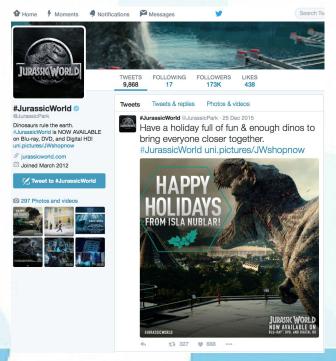
IMDB Movie Ratings

Twitter Archiver Search API

30 Daddy's Home



Twitter REST API



Questions

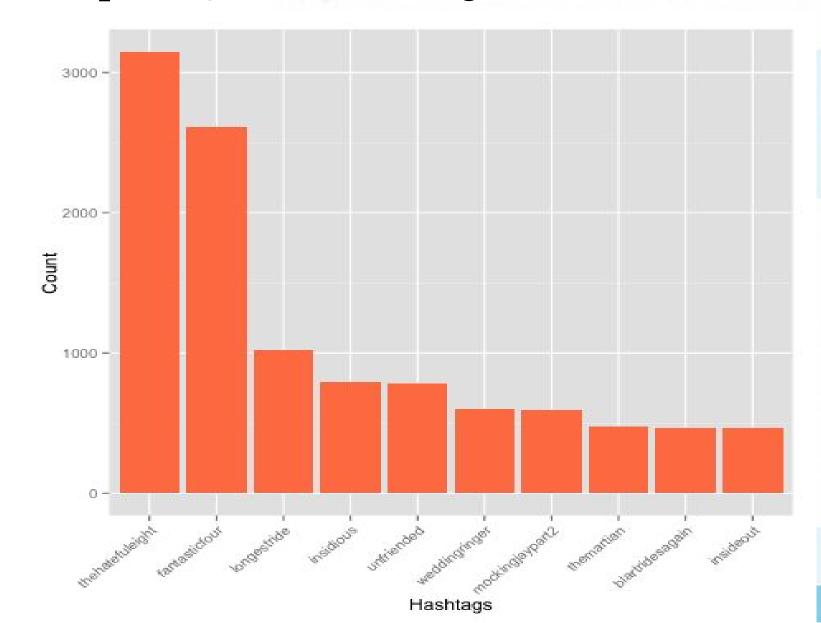
- 1. What are the most frequently used words? top 10 hashtags?
- 2. How are Twitter/IMDB account features related to **Box office performance**?
- 3. What are the different promotion styles?
- 4. **Public opinions** on these movies

Word Cloud



Word	Frequency	Word	Frequency
see	9150	trailer	3353
now	8620	select	3248
new	6852	cities	3145
tix	6285	glorious	3118
unlocked	5126	avail	3107
theaters	4540	friday	3037
watch	4195	movie	2700

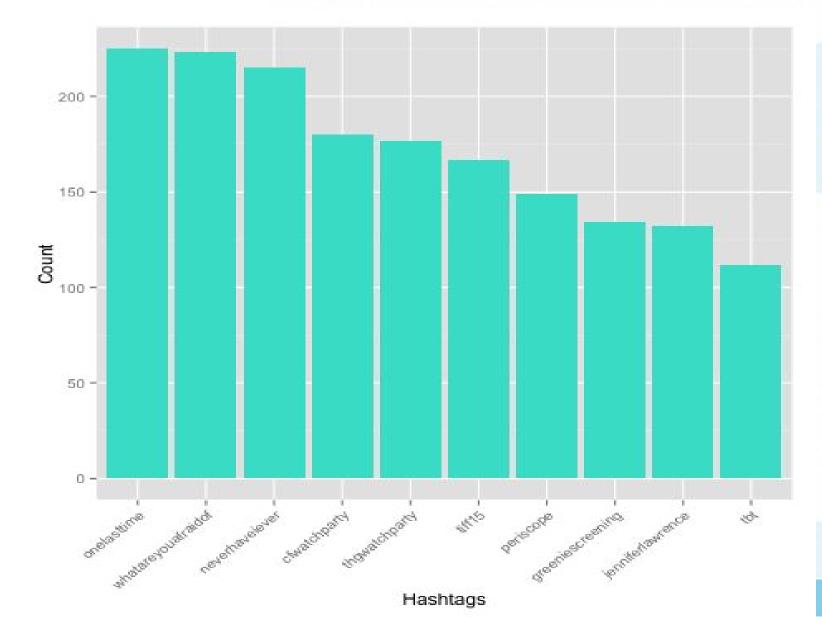
Frequently used hashtags, but...



Top 10 hashtags:

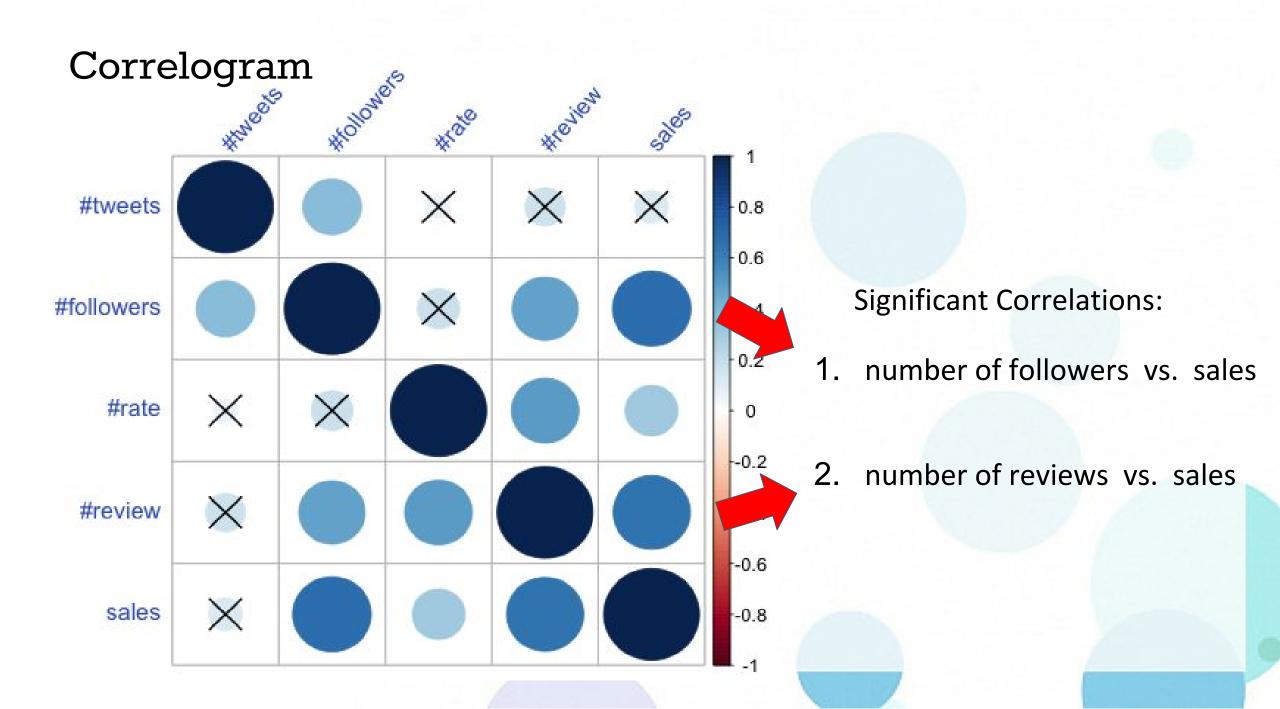
- thehatefuleight
- fantasticfour
- longestride
- insidious
- unfriended
- weddingringer
- mockingjaypart2
- themartian
- blartridesagain
- insideout

Frequently used hashtags (adjusted)



Top 10 hashtags (adjusted):

- onelasttime
- whatareyouafraidof
- neverhaveiever
- cfwatchparty
- thgwatchparty
- tiff15
- periscope
- greeniescreening
- jenniferlawrence
- tbt



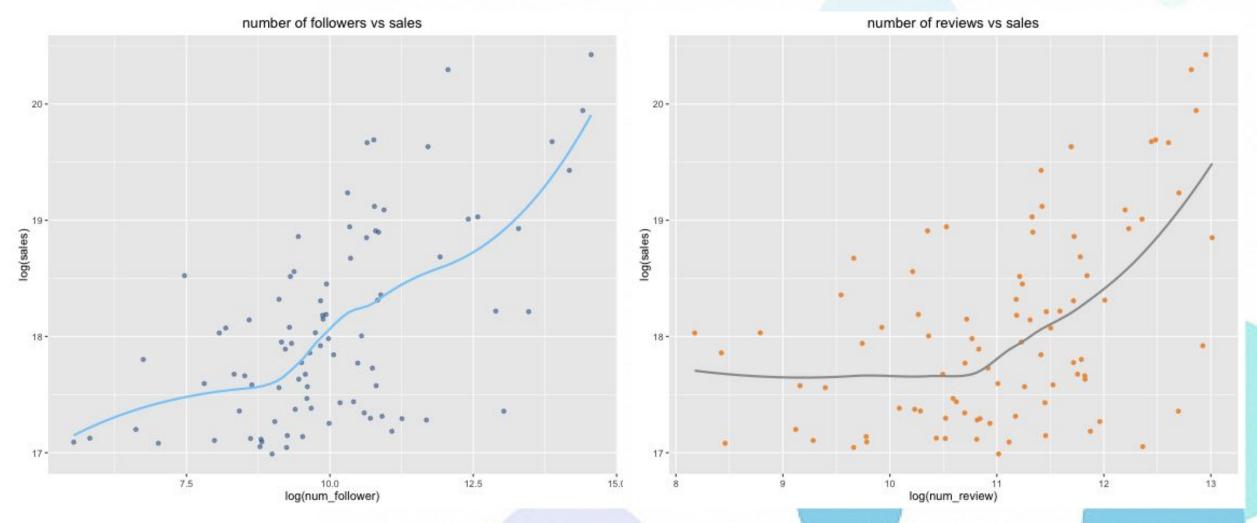
What twitter/IMDB account property reflects Sales/Rating?

•Followers vs. Sales



•Reviews vs. Sales





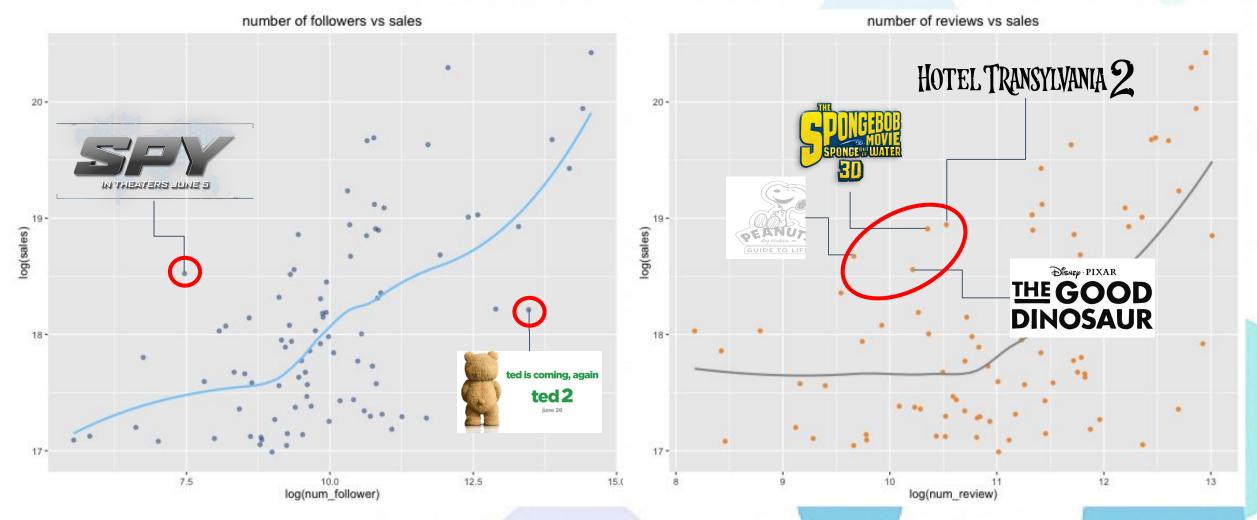
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•Followers vs. Sales

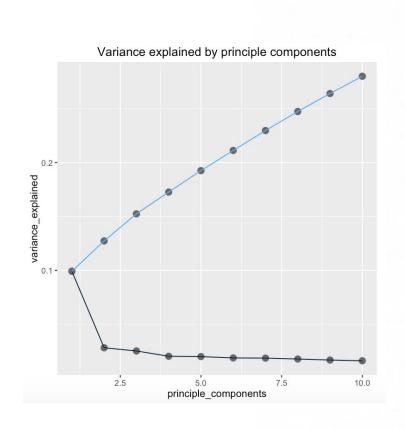


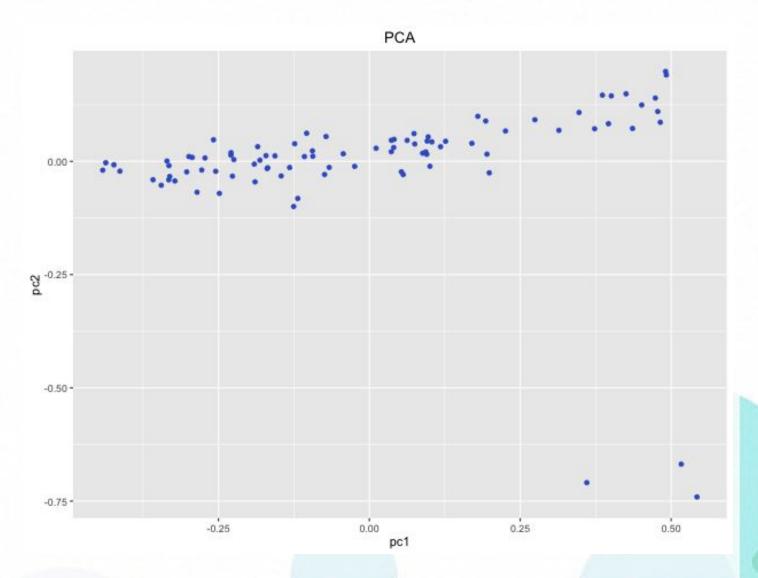
•Reviews vs. Sales



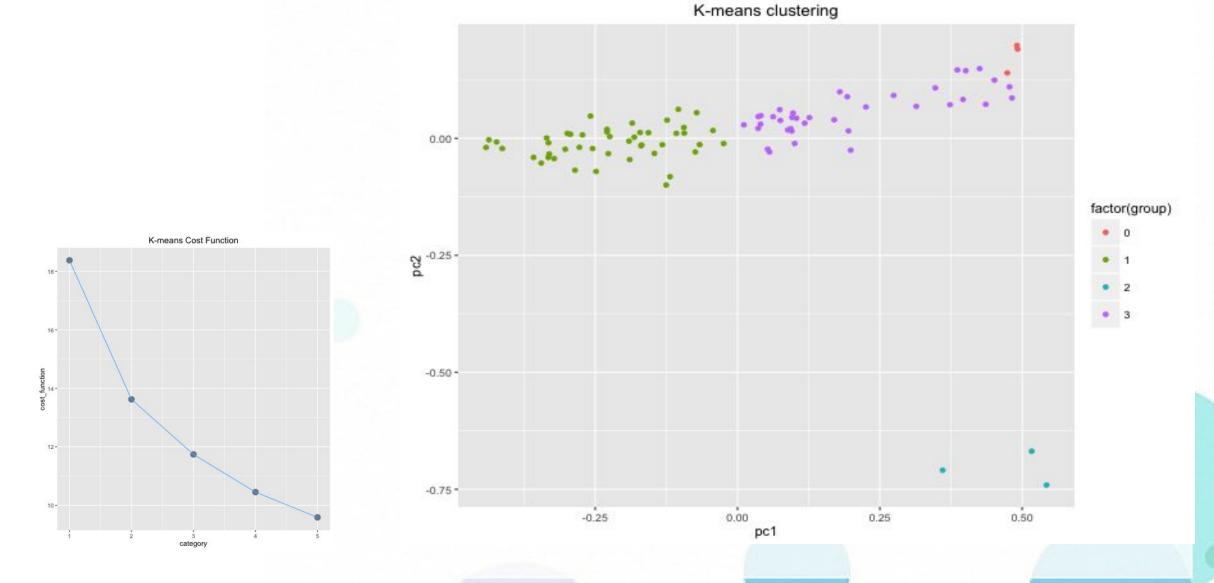


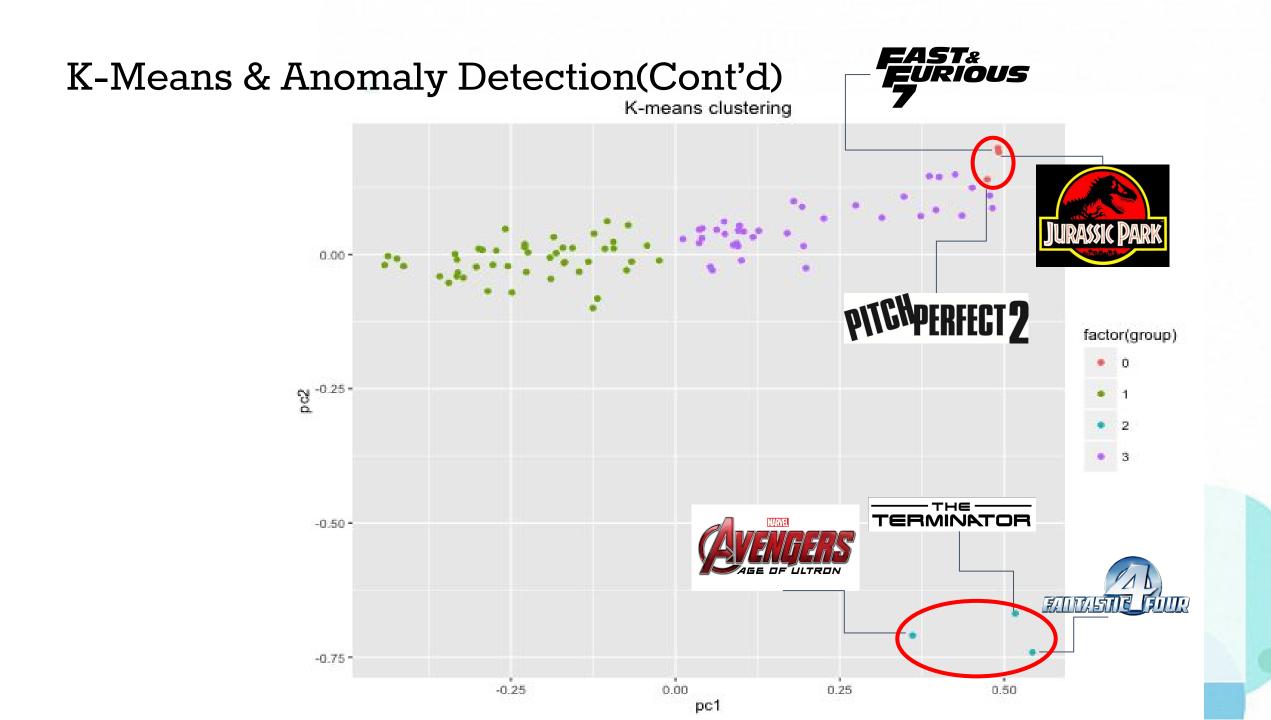
Principle Component Analysis & Data Visualization





K-Means Classification Algorithm & Anomaly Detection





What resulted in outliers?

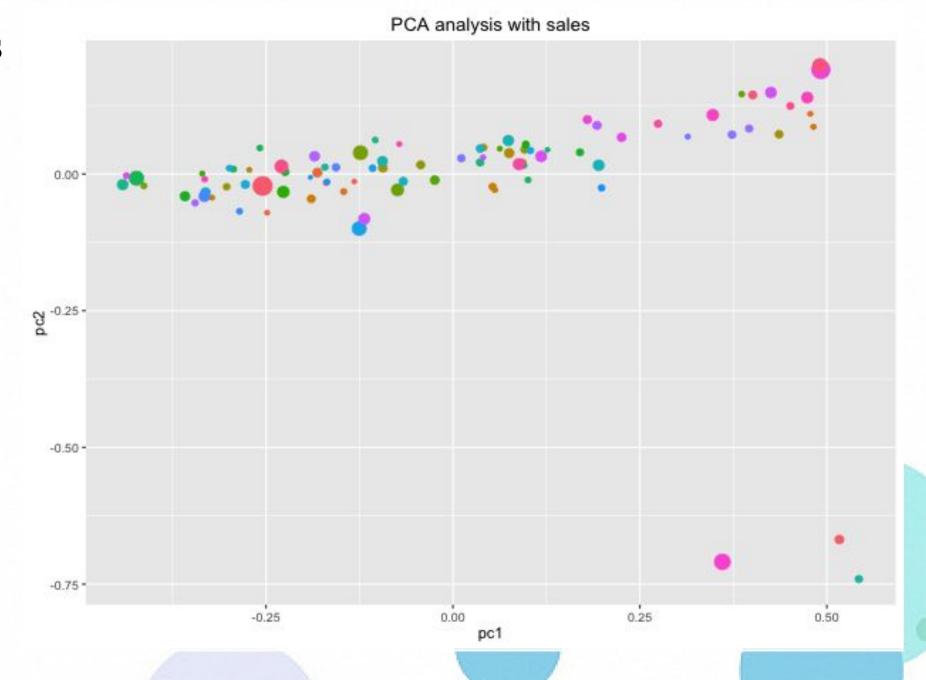


@TashaPuffs
@_littlelena
@DanyelleWadswo1
@sofiesdad08
@OfficiallyMoye
Now you can get #PitchPerfect2! Retweet if you're ready for more music & & amp; extended scenes.
Now you can get #PitchPerfect2! Retweet if you're ready for more music & & amp; extended scenes.
Now you can get #PitchPerfect2! RT if you're ready for more music & & amp; extended scenes.
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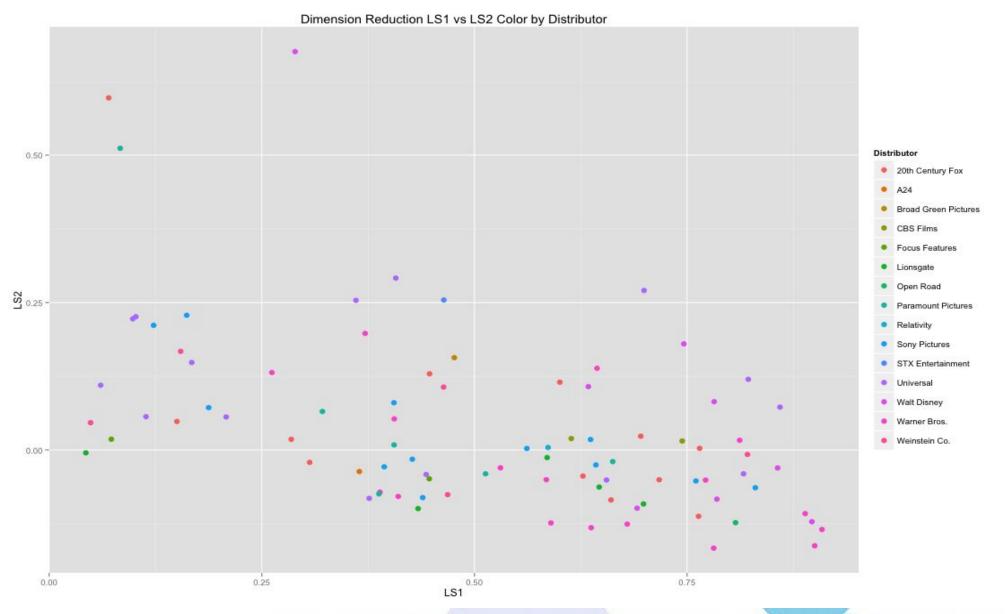


@SapphireZebra It's unlocked! Watch the new @Avengers trailer & pet tix now. It's unlocked! Watch the new @Avengers trailer & pet tix now. It's unlocked! Watch the new @Avengers trailer & pet tix now. It's unlocked! Watch the new @Avengers trailer & pet tix now. It's unlocked! Watch the new @Avengers trailer & pet tix now. It's unlocked! Watch the new @Avengers trailer & pet tix now. It's unlocked! Watch the new @Avengers trailer & pet tix now.

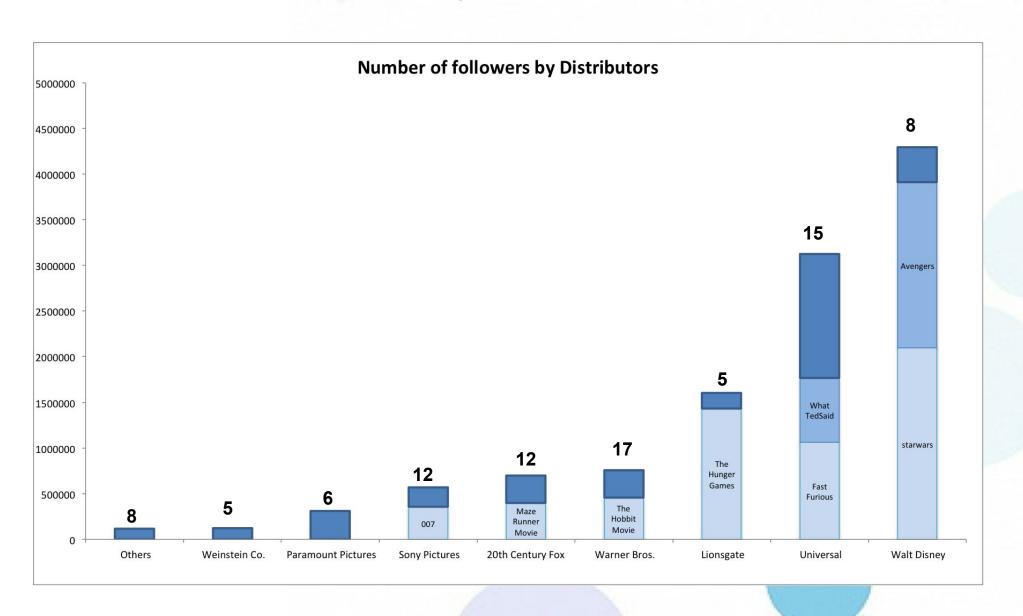
PCA with Sales



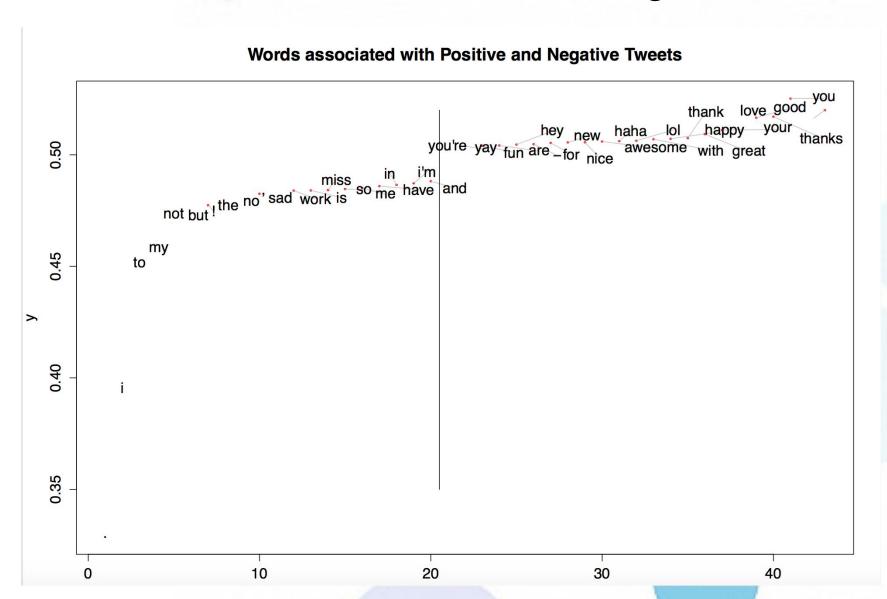
Latent Semantic Analysis with Distributors



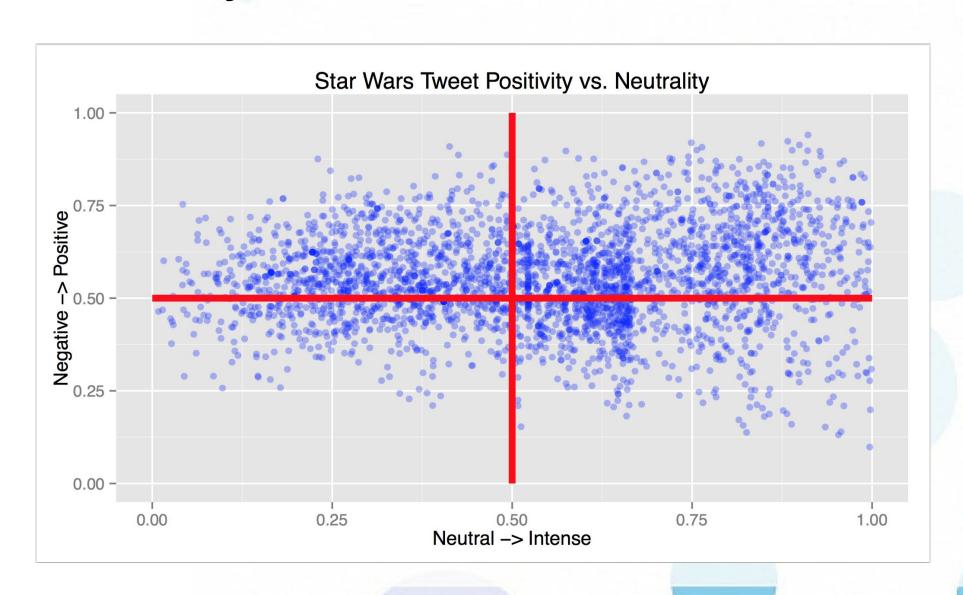
Number of followers by Distributors



Words associated with Positive and Negative Tweets



Sentiment Analysis for the new StarWars



Sentiment Analysis of Twitter Keywords

