Unsupervised Comedy

Agenda

1 2 3
Motivation Dataset & Methodology Topic Modeling

4 5 6
EDA - Gender Trends Comparisons Future Work



Why Stand Up Comedy?

Laughing is fun

Humor is Highly Subjective

"Comedy is a derivative of Truth"

Motivation: What do comedians talk about?

Dataset & Methodology



Transcripts
All Living Comics
32 Transcripts
~1400 Documents
18 Total comedians
9 Female / 9 Male



Location Reviews Ratings Male Review & Ratings Female Reviews & Ratings

Process

Cleaned Text - Spacy/NLTK

LSA, NMF, Corex

CountVectorizer, TF-IDF

Min/Max DF, bi-grams

Anchored Corex

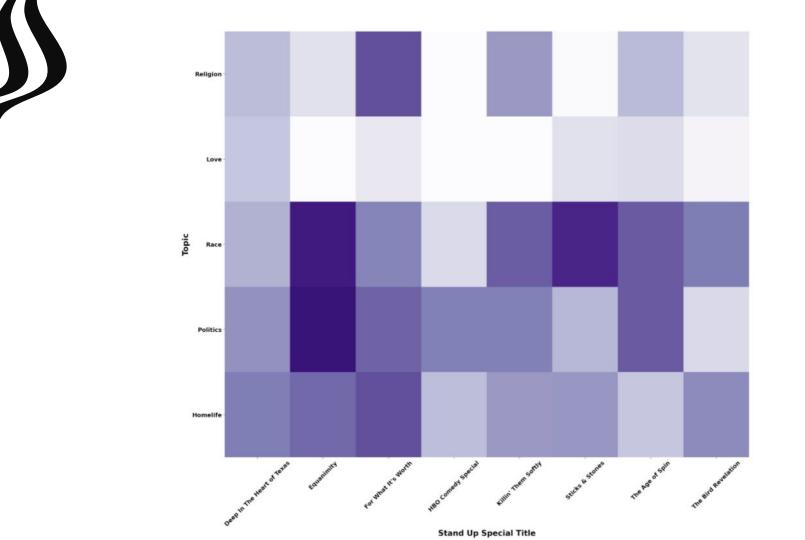
Top Topics

Topic	Anchor	Associated Words
Love 🕥	Love	Marry, Date, Liked, Chef, Always, Married, Together, Cute, Fun
Race Company	White	Black, Racist, Police, Racism, Support, Anthem, United, Man, Dude
Religion **	God	Wind, Pray, Hold, Believe, Little, Think, Damn, Religion, Die
Politics	Trump/Vote	People, Asian, Medium, Bush, President, Everyone, George, English, Clinton
Homelife _	House	Son, Kid, Wife, Soon, Baby, Back, Room, Weed, Home

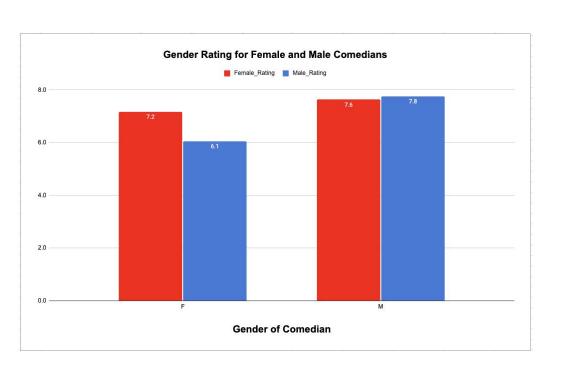


Dave Chappelle





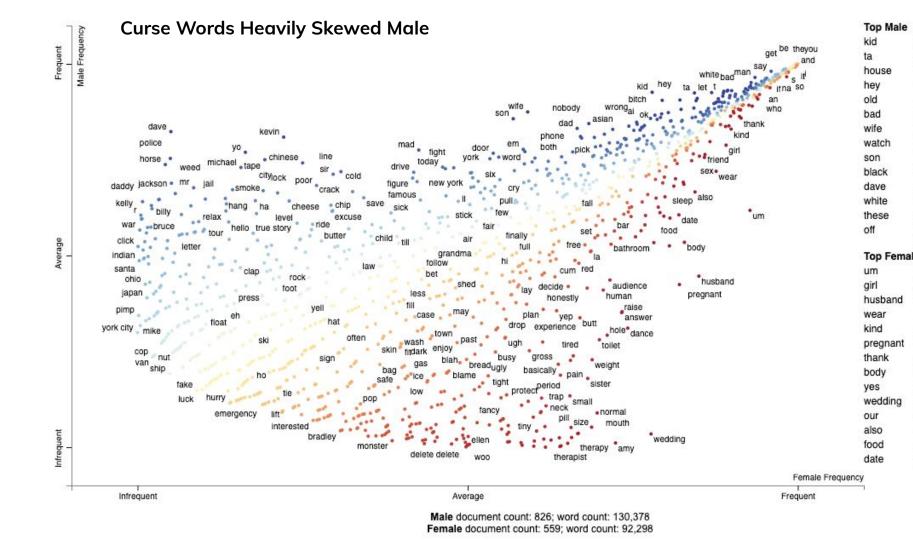
The Fair-er Sex



Female Comedians rated nearly a point lower on average by men

Female rating of comedians consistent across gender

Only one female comic ever to make top 10 in earnings



Best in Class?

Amy Schumer

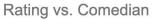
\$21 Million in 2019

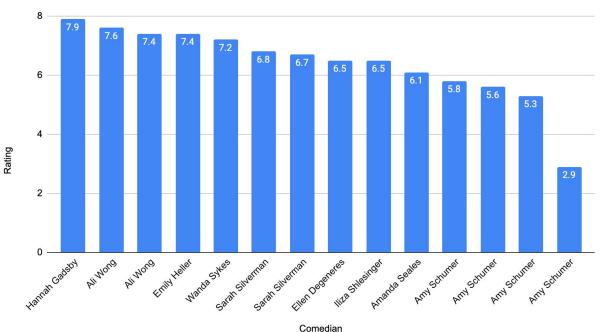
Four Major Specials for HBO & Netflix

Only Woman to be featured in Forbes top earners for Stand Up (2016, 2019



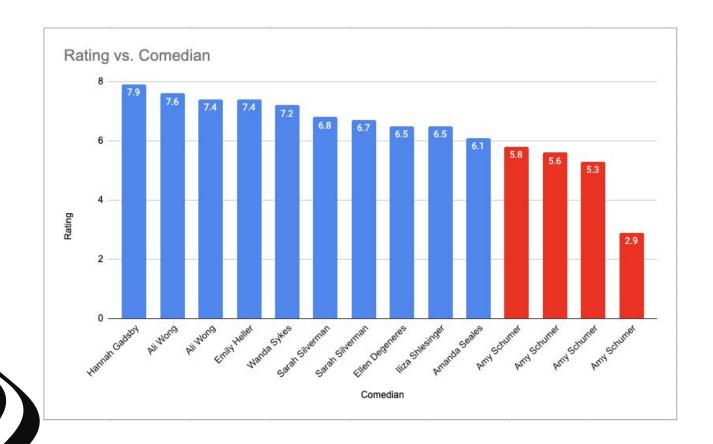
Substance Over Style







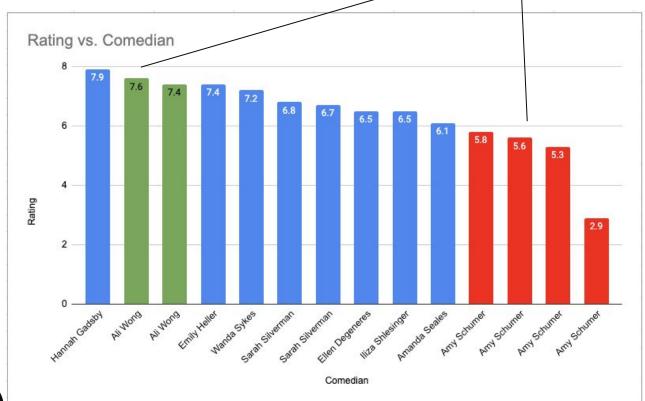
Substance Over Style





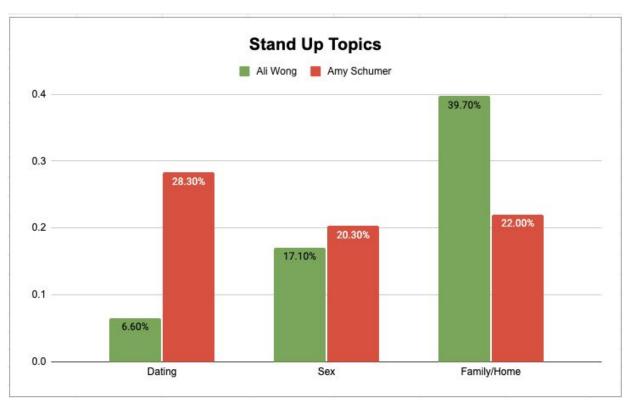
Substance Over Style

Ali +3.5 Rating from Men / +1.25 Women





Ali vs Amy





Ali Wong - "Baby Cobra"



Ali Wong - "Baby Cobra"

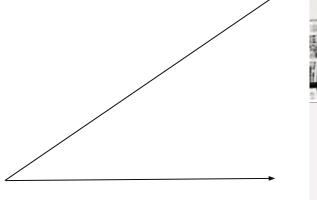




Amy Schumer

Ali Wong - "Baby Cobra"







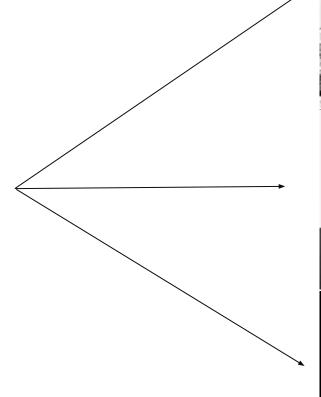
Amy Schumer

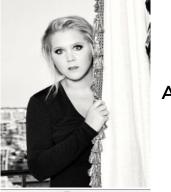


Louis CK

Ali Wong - "Baby Cobra"







Amy Schumer



Louis CK



Bill Burr

Future Work

More Transcripts from different artists

- Improve Topic Depth / Distribution
- Refine Artist Recommender

Further Corpus Size Experimentation

Include Laugh Target

- Focus on when people laugh

Time Series for Specific Comedian



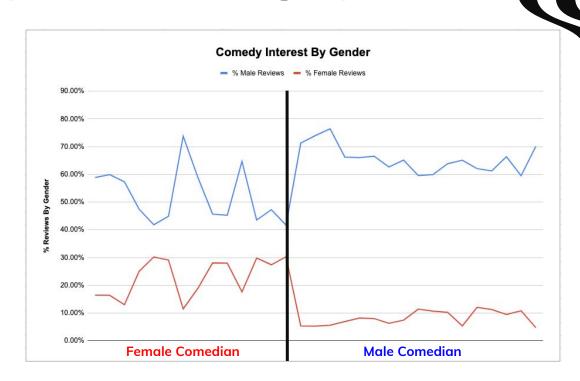


Reviews as Proxy for Viewership By Gender

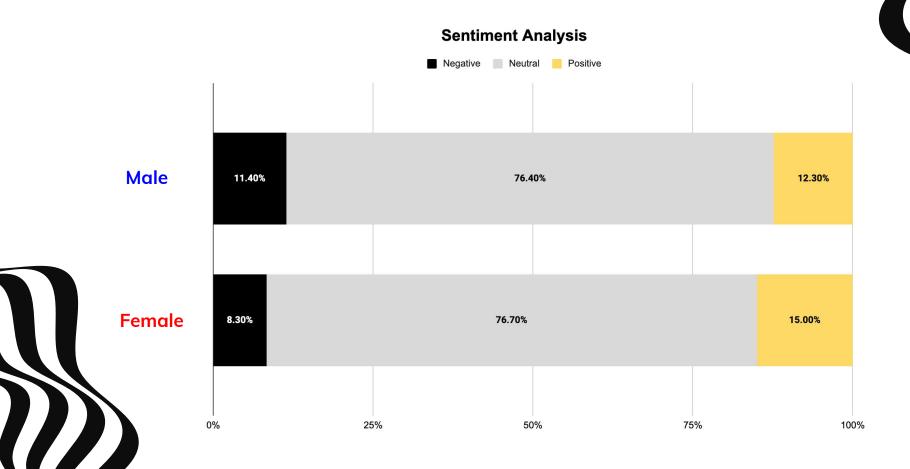
Males make up 81% average of IMDB reviews

Female reviews +10-20% for female comedians

Male total reviews higher by ~10% for male comedians

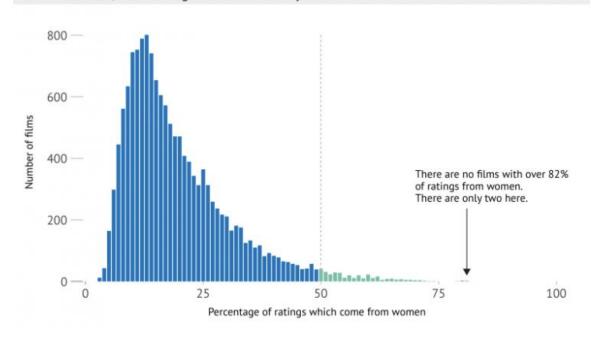


Positive Vibes

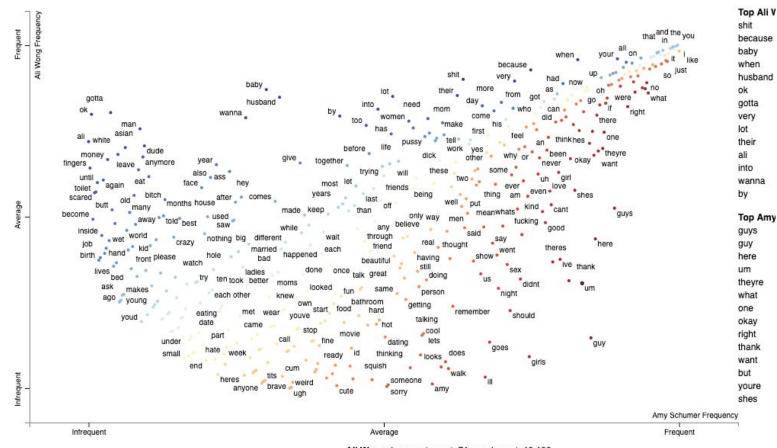


The Gender Bias of IMDb

For most films, IMDb ratings are dominated by men



Ali vs Amy



Ali Wong document count: 71; word count: 13,186
Amy Schumer document count: 139; word count: 27,601

