

# Problem:

Lesbian divorce rates are twice as high as gay divorce rates















### An inclusive place for gay men to share their lives and experiences.

r/GayMen

An inclusive place for gay men to share information and discuss issues that relate to their lives & ... More

11.7K members • 20 online

**Join Community** 

View this community's rules

## Purpose and Scope

This is an inclusive place for gay men to share information and discuss issues that relate to their lives & experiences of being a gay man.

Whether you're a bro, gent, teen, elder, butch, sissy, or











#### **Actual Lesbians!**

r/actuallesbians

A place for discussions for and by cis and trans lesbians, bisexual girls, chicks who like chicks, b... More

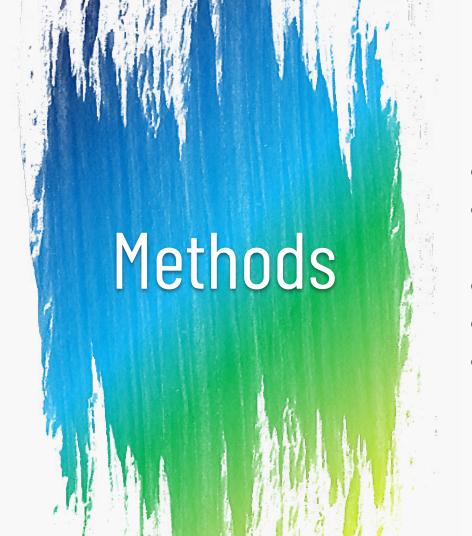
220K members · 790 online

**Join Community** 

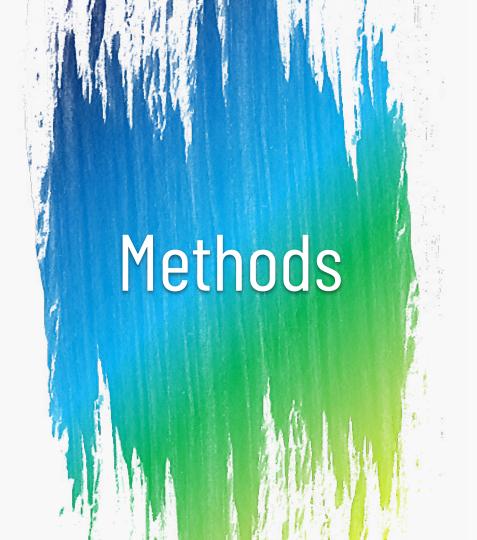
View this community's rules

- 1. Join Our Discord Server!
- 2. How to Handle Trolls
- 3. Catfish Tracker

Welcome to the sub, please read our rules.



- Pushshift API
- Two sets of 500 submissions per group for a total of 2000
- Combine to one dataframe
- GayMen: 1, actuallesbians: 0
- Combine title, self text to one column



- Stopwords adjusted to include pronouns, other common words in community
- Train/Test/Split (.33)
- CVEC/LogReg
- TVEC/LogReg
- TVEC/ Naive Bayes Multinomial



# CVEC/Log Regression

- Gridsearch
- Stopwords
- Max features: 500, 750, 1000
- Min df: 3, 5, 9
- ngram range: (1,1)(1,2)
- Best Result: 1000, 3, (1,1)
- Score: .82
- Train: .94 Test:.82



## TVEC/Log Regression

- Gridsearch
- Stopwords
- Max features: 500, 750, 1000
- Min df: 3, 5, 9
- ngram range: (1,1)(1,2)
- Best Result: 500, 3, (1,1)
- Score: .82
- Train: .92 Test:.79



TVEC/Naive Bayes Multinomia

- Gridsearch
- Stopwords
- Max features: 500, 750, 1000
- Min df: 3, 5, 9
- ngram range: (1,1)(1,2)
- Best Result: 1000, 3, (1,1)
- Score: .82
- Train: .88 Test:.81





- We can find significant differences in gay/lesbian subreddit text
- Comparing gay/lesbian Reddit language is not the best way to diagnose problems within the lesbian community
- Better method: conduct surveys with lesbians in marriages that have ended and marriages that have lasted over x years and find trends.
- Don't get married?