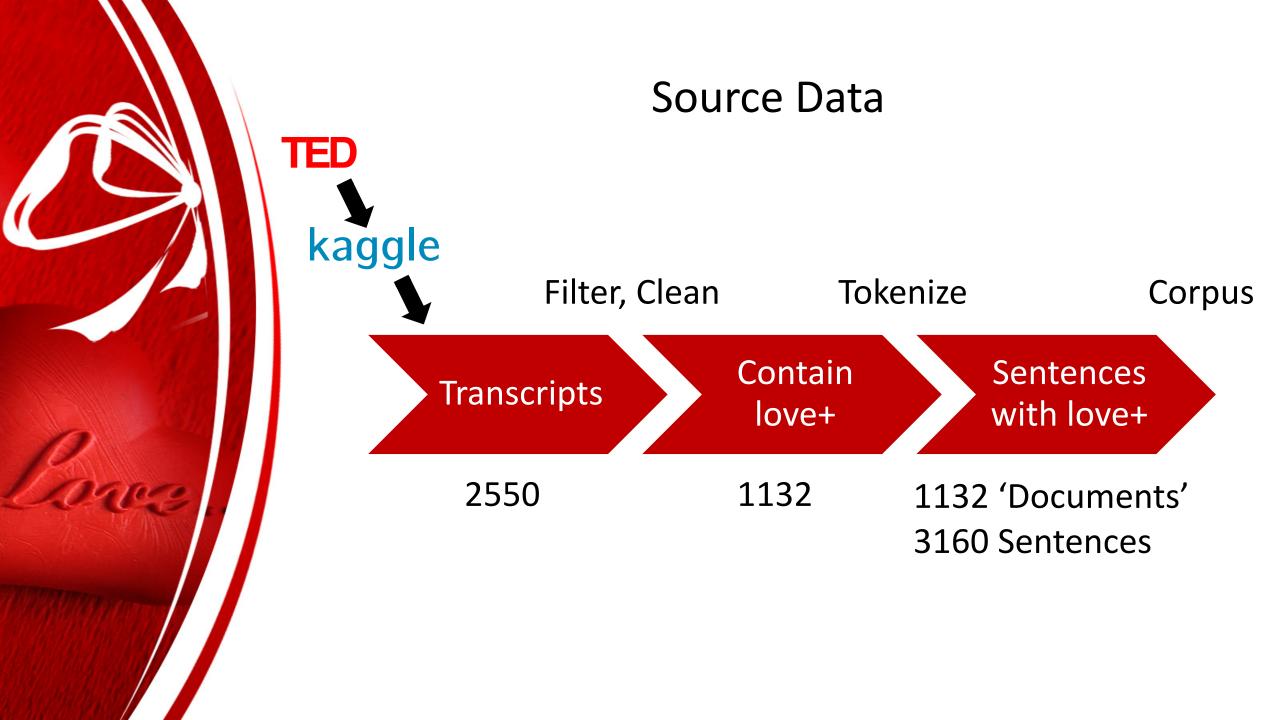


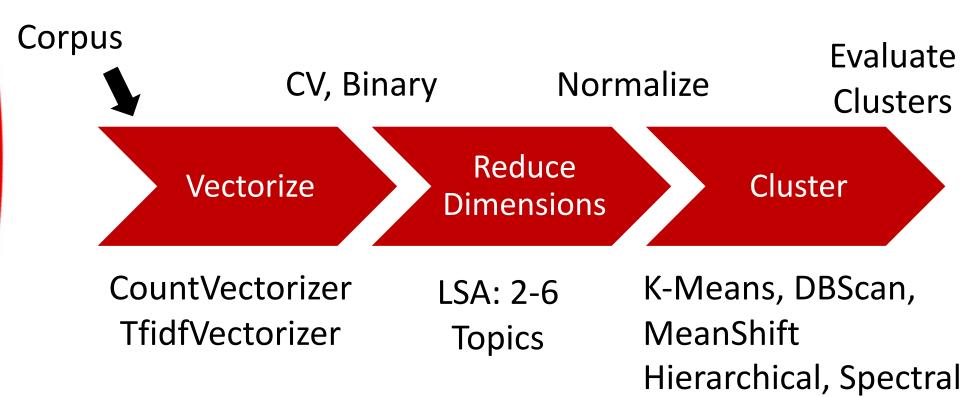
Using NLP to Explore 'Love'
In TED Talks

By Sean Davern

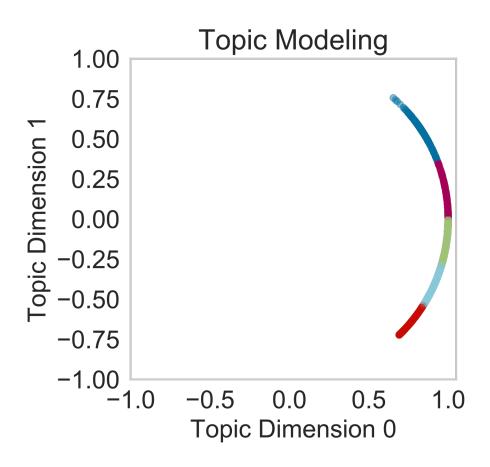




NLP Methods Used

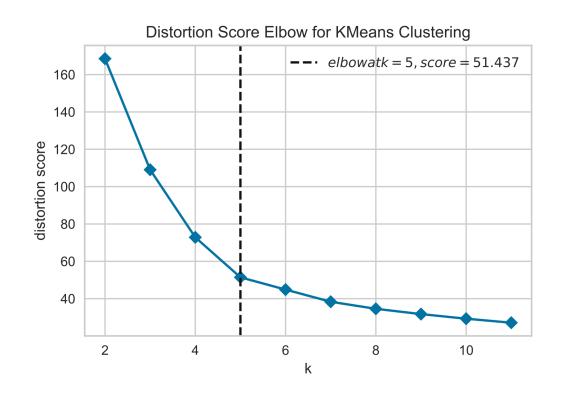


Normalize & Cluster

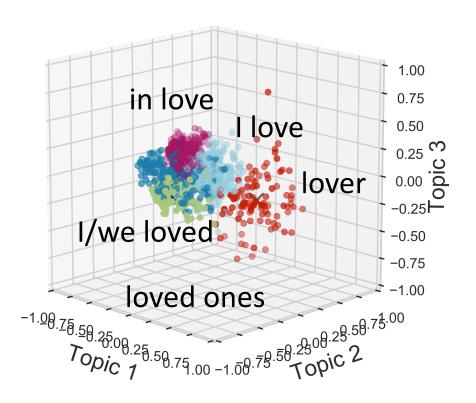


- Normalizing (projecting onto the unit circle) covers a relatively small arc
- Dimension 0 can effectively be neglected (visually)

4-Topic Model



Topic Modeling Clusters





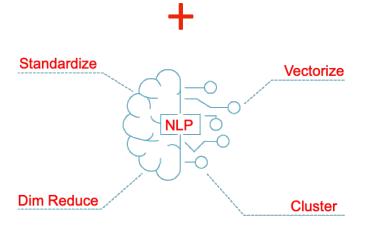
Conclusions & Future Work

- NLP was able to identify distinguishable clusters
- These clusters weren't particularly insightful regarding exploring how authors talked about love.
- Tools to mathematically validate the distinguishability of clusters in higher dimensions would be helpful!



Questions?

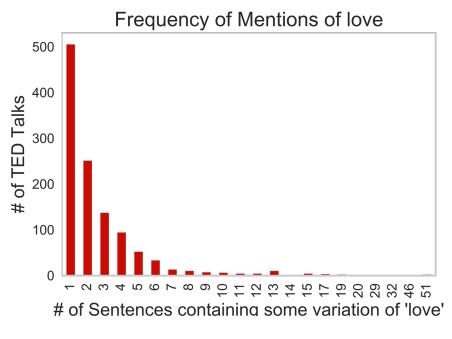


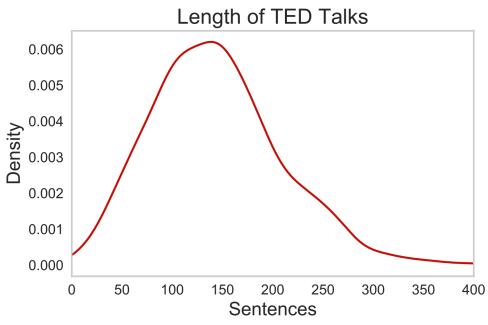




APPENDIX

Love Content







Cluster Sense Making

- (green): (obj) "in love", "an expression of love", I love (1/2)
- (mag): (present tense feeling) I love, his real love, I love you, a lot of love in these passwords – expect to find love (3-5)
- (cyan): (past tense feeling) I/we loved (3+)
- (blue): loved ones loved it loved the sound we loved
 (1)
- (red): (n., obj.) plant lover gave them love, met the love of their life, all this love, not my lover, music lovers, jazz lovers (5+)