

Current Projects

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About me!

- Trained as political scientist
- Background in math / philosophy
- Love for **agent-based models** and **data visualization**

Current work : Two main projects

- Housing (*new project!*)
- Taylor Swift

Housing in MPLS: 2040 plan

- **Minneapolis' 2040 plan** effectively bans new single-family homes through zoning approaches
- Plan in limbo but question remains: is this an **effective way to address affordable and accessible housing?**

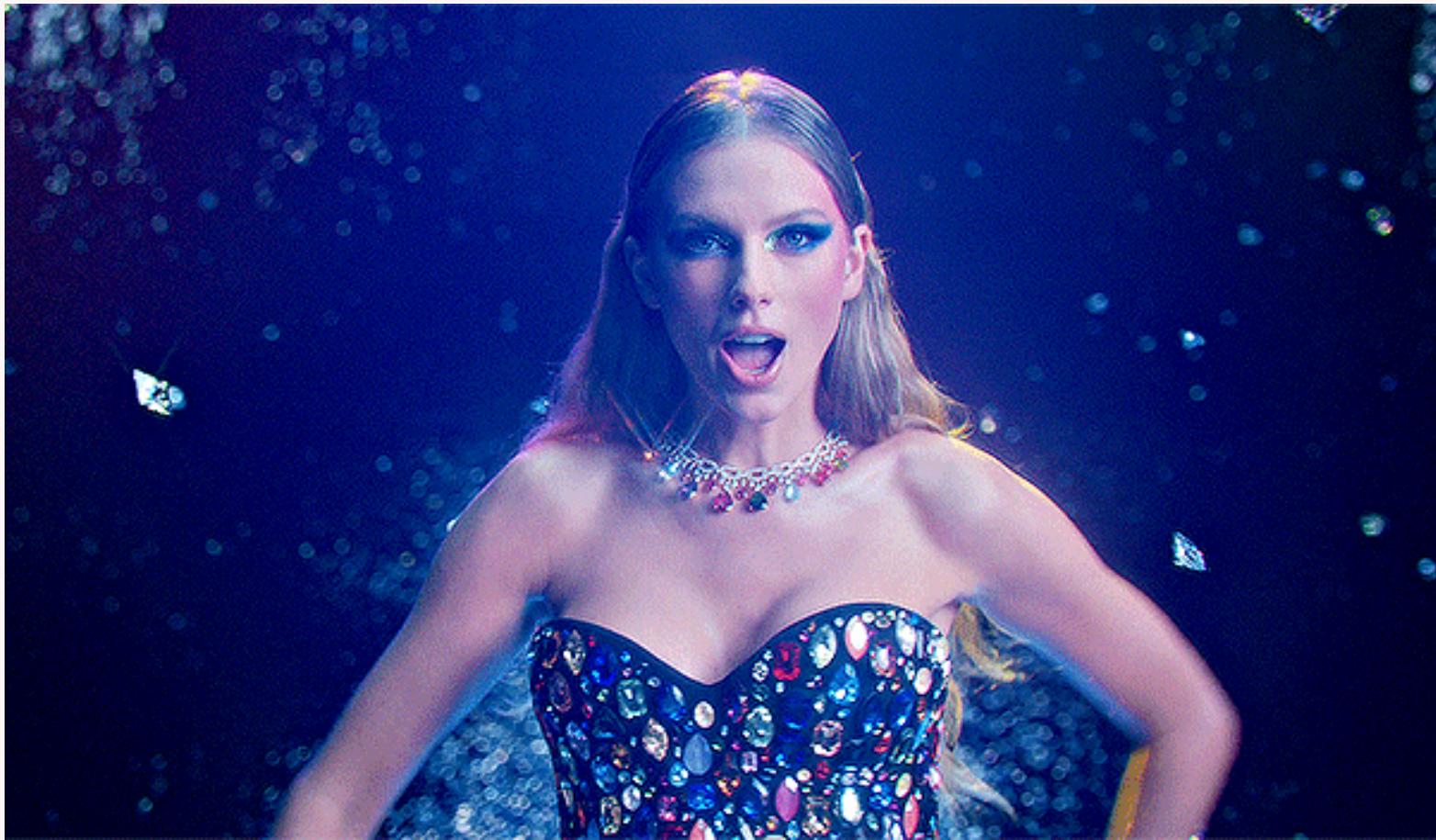
Project: Carrots and Sticks (housing policy in minneapolis)

- **Agent-Based Model**: parameters of the city
- Aiming for a complex but not 100% realistic rendering
- Hoping to **calibrate with local data** but we'll see

Phases

- Setup of model
- Predict response to announcement of policy (compare movement to explore if people /prices shift)
- Test **multiple housing policies** to explore
 - Ban (e.g. MPLS 2040)
 - Incentives for new (re) development
 - Penalties or costs for low density development
 - Explore **discourse around policy**
 - LA development
 - Office building redevelopment (NYC)

Taylor Swift



Project overview

- **Lyrics** of all work (focusing on original studio recordings -- e.g. no Taylor's Version except for tour info)
- Data on **Eras Tour**

Guiding questions:

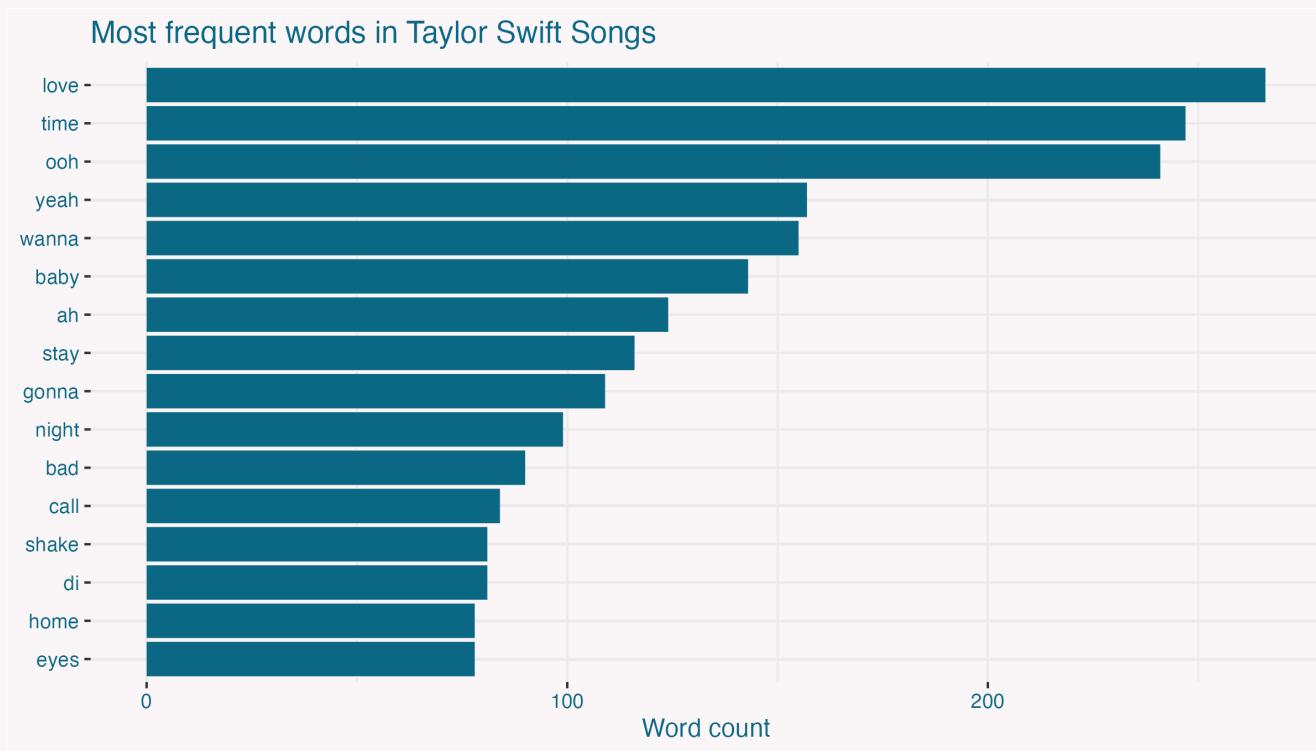
- What can we learn about **Swift's work**?
- How has her work **changed over time**?
- How can we think about the Eras Tour w/r/t how an **artist imagines and packages their work**?

Preliminary findings

Overall body of work

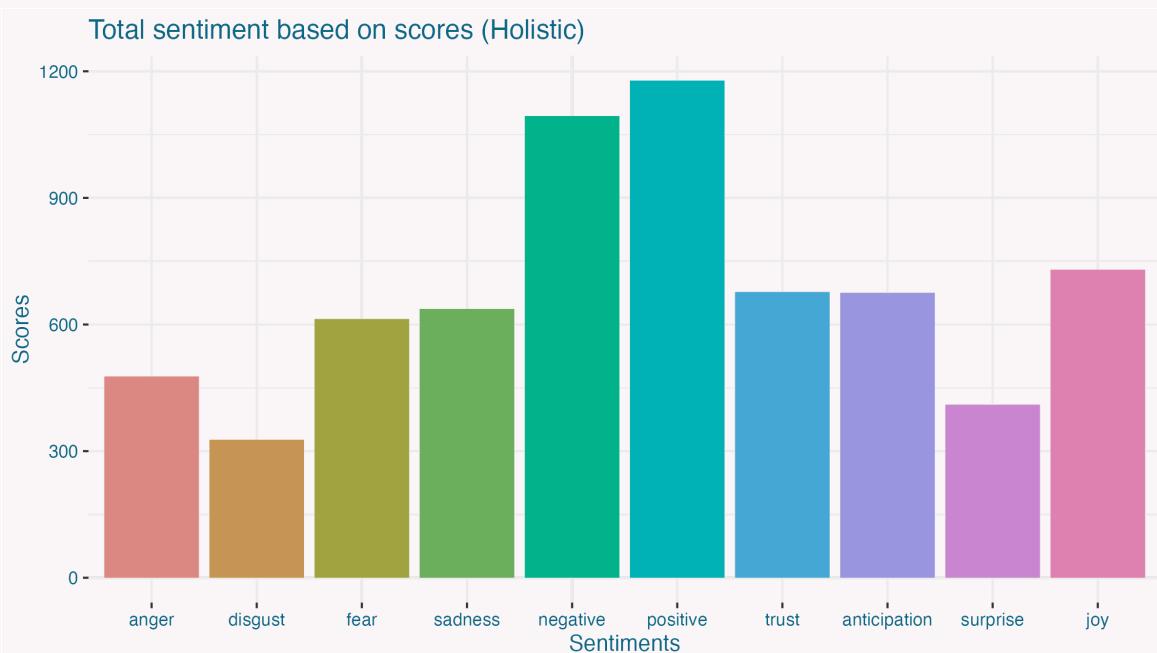
- Dominant words
- Sentiment
- Positive / negative words

Frequent words



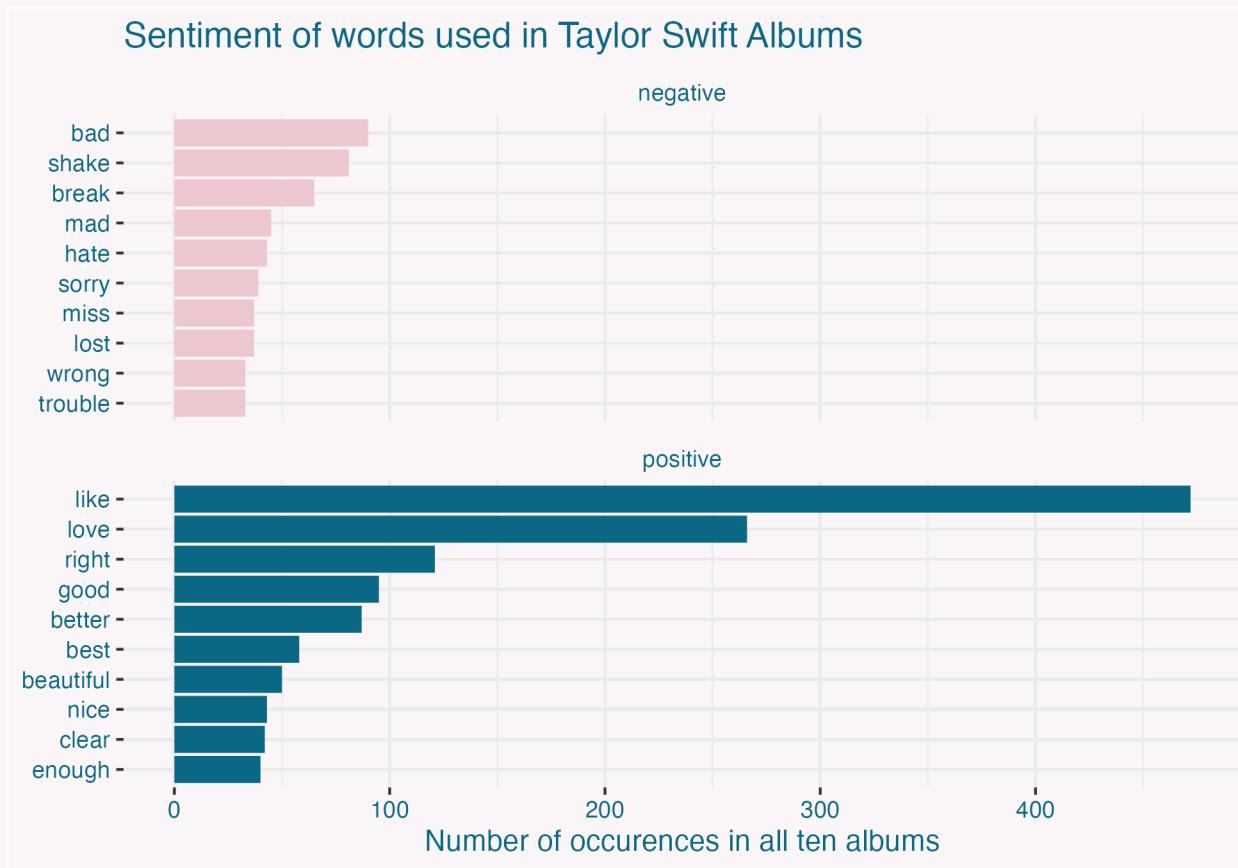
Above we see that her work is **overwhelmingly about love** (which tracks, given her reputation for writing about breakup songs). We also see some simple words that are recognizable given the structure of her songs. Let's dig deeper!

Overall sentiment



More positive sentiment than negative, but general balance: loosely structured from most negative to most positive sentiments.

Positive / negative words



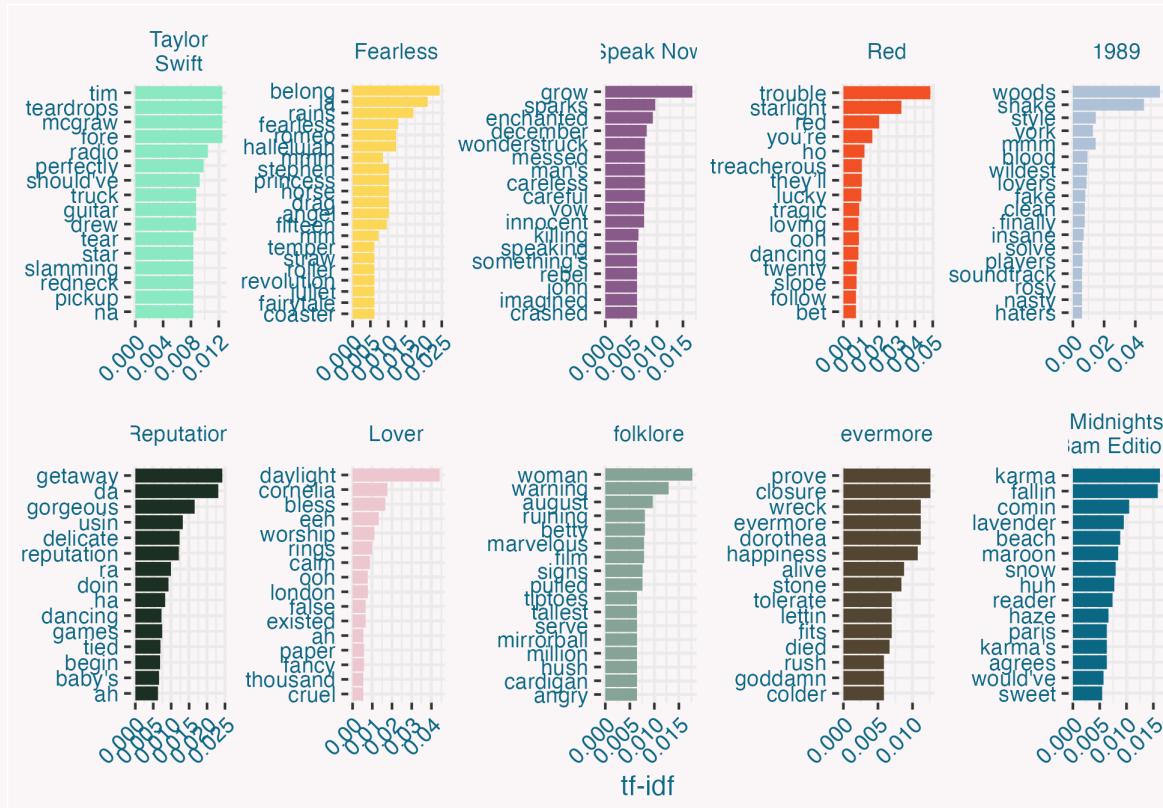
future work: explore use of like in work

By album

(temporal exploration)

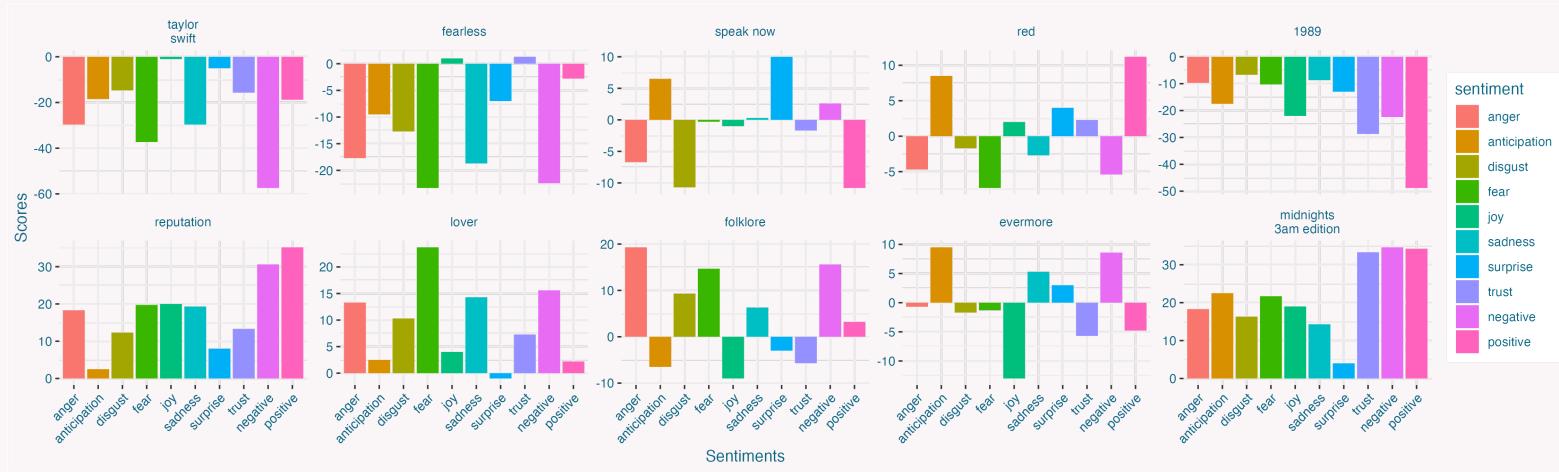


Frequent words



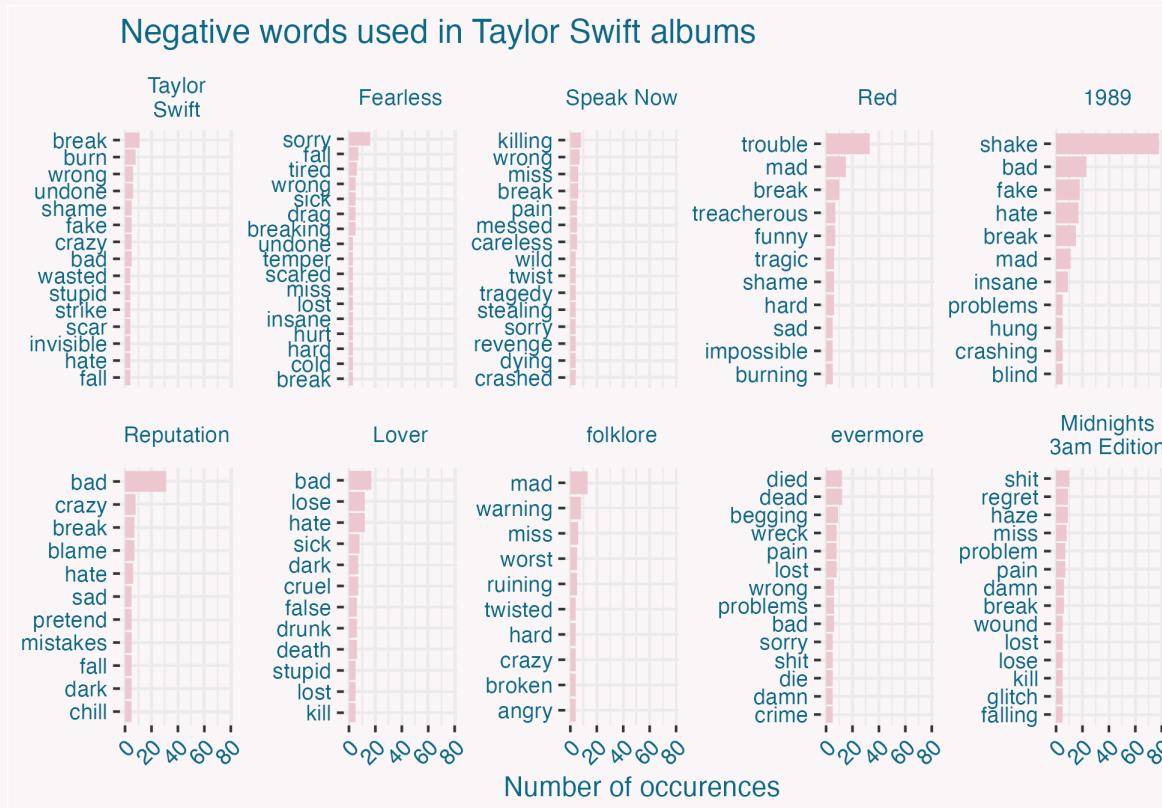
We can see three things: a) **song-specific words** (repetitive song structure), b) **language evolution** from more fanciful to more 'direct' language, and c) lots of **evocative nouns**, particularly in her more 'country' work and her more 'story' albums (evermore and folklore).

DIFFERENCE in average sentiment



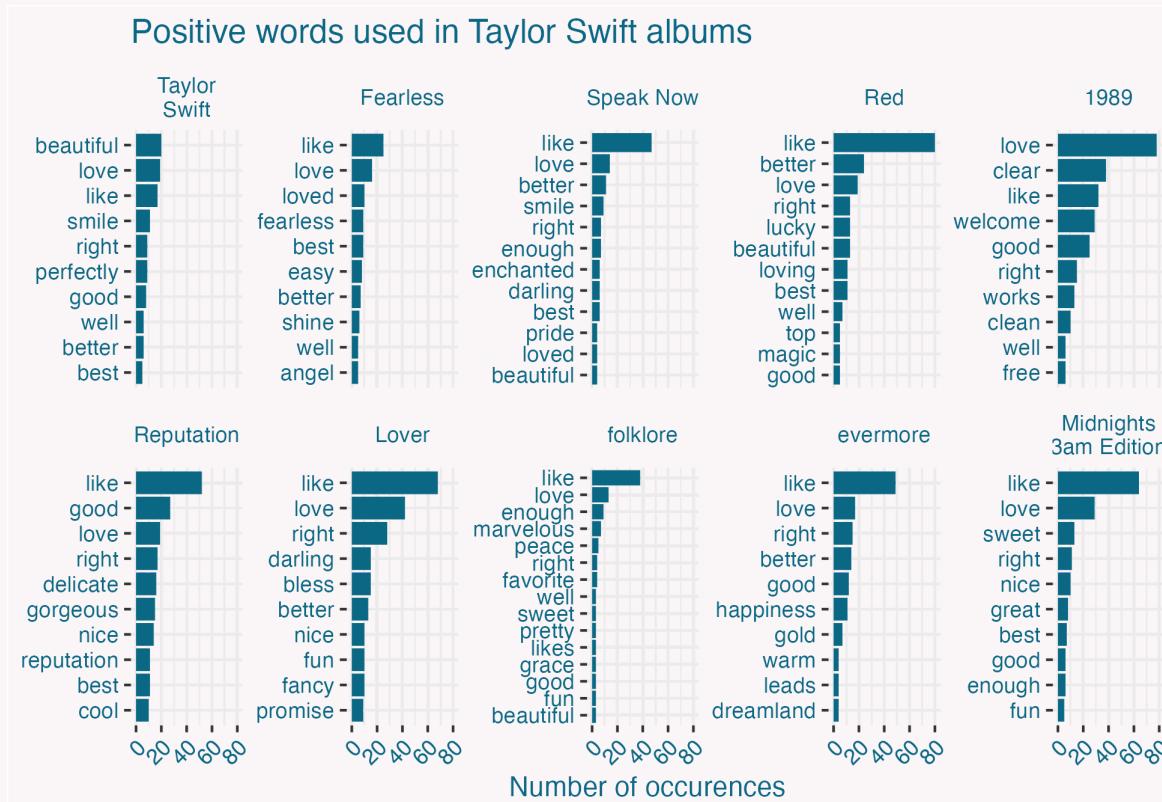
These are very preliminary but suggest that her **later work is more emotionally charged** than her earlier work -- here, we're looking at differences from the average.

Positive / negative words



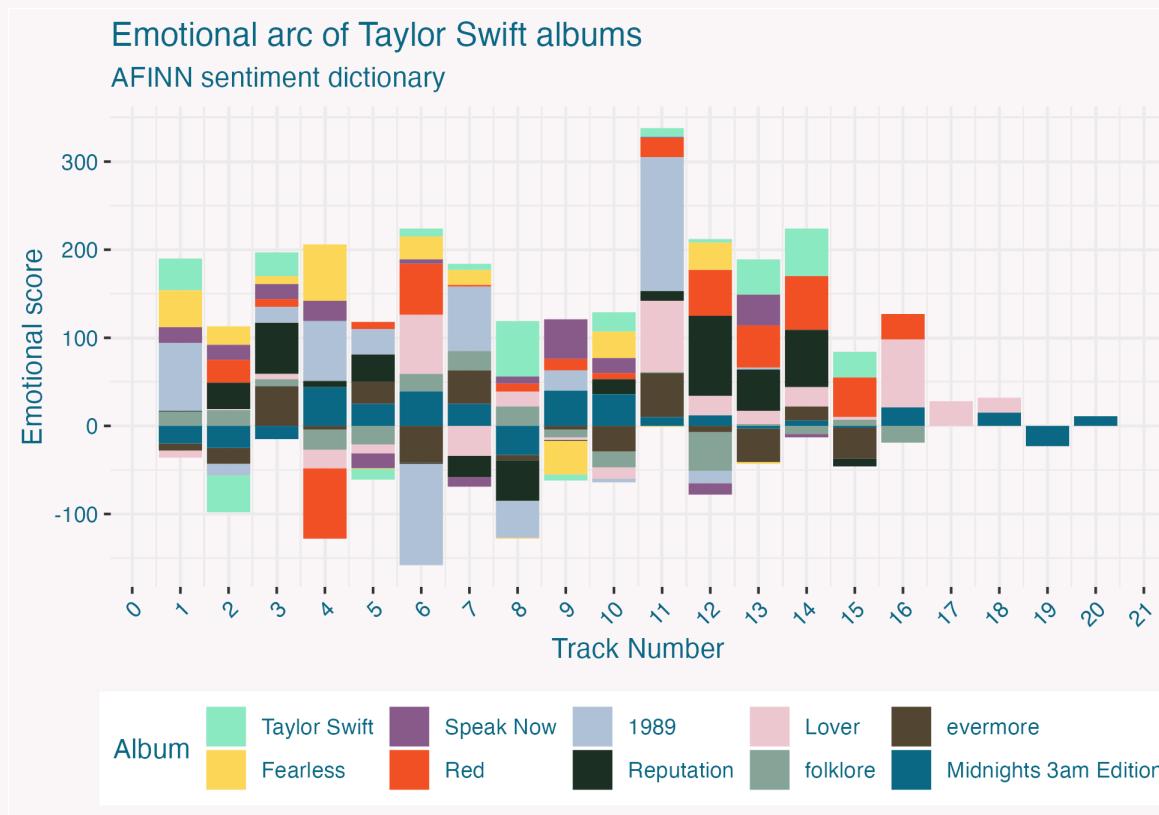
As in the case of the overall evolution, we see much **more mature language** here (wrong and stupid vs shit and regret).

Positive / negative words



Two things: a) **consistency** (like and love) and b) **more imaginative vs direct** (perfect, beautiful vs pretty, great, best).

Track five



Look at bar height and distribution to explore whether some tracks tend to be more positive, negative, and/or more range. We don't see that Track 5 are the most personal (maybe Track 6?). **Track 11 seems to be the 'glitter pen' songs.**

Next steps

- Digging more into literature
- Incorporating Eras setlist (separate: what is / not included)
- Additional data (album measures (PCA), TikTok data)

