# Capstone Project Proposal

Using Spotify Web API and web-scraping to map artist birth places



# Research Question(s)

#### **Main Questions:**

Do spatial clusters emerge in music streaming patterns based on the geographic origin of artists?

If spatial clusters do emerge, what are some of the historical and socioeconomic attributes associated with them?

#### Methods

- 1. Analyzing Spotify Data via the Spotify API
- 2. Collecting Artist Birthplace Information
- 3. Plotting Data Points
- 4. Hierarchical Cluster Analysis



#### **Spotify Data**

- Spotipy Library in Python
- Data available from Spotify API



## spotipy-dev/spotipy

A light weight Python library for the Spotify Web API

A 176 Contributors 28k

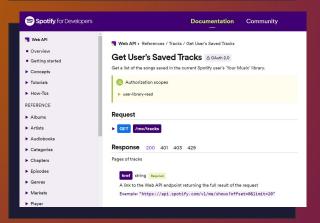
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Forks



#### Birthplace Data

- Localify dataset
- Web-scraping the Google **Knowledge Panel**



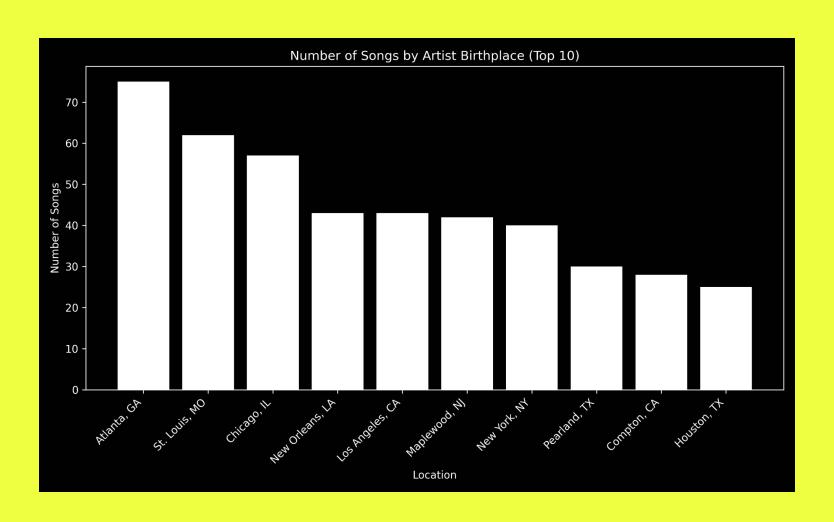
About

21savage.com

Shéyaa Bin Abraham-Joseph, known professionally as 21 Savage, is a UK-born American rapper. Born in London and

raised in Atlanta, Georgia, he began his recording career in

2013 and released three independent mixtages to regional





#### User Takeaways

What happens if we filter my data for songs categorized as drill?



Life

#### The Secret History of Drill

How Chicago pioneered a sound that spread to the UK and the rest of the world, as told by the people who were there.

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K drill's influence can be heard in burgeoning scenes from Albania to Australia, <u>Ireland</u> and <u>Kenya</u>, but its most remarkable – not to mention unexpected – impact lies across that famous bridge in good ol' NYC. While current critics tip the nearby house-fuelled <u>Jersey club sound</u> as drill's hippest new manifestation, it's Brooklyn that has set the scene for what is arguably its most historic revelation.

BK's three biggest drill rappers, Fivio Foreign, Sheff G and the now-deceased Pop Smoke, all ended up almost exclusively employing the same three (barely acquainted) northeast London producers to supply a distinct breed of beat that has fuelled the borough's ascendance in the genre.

# Next Steps

- 1. Actually publishing the site
- 2. Cluster Analysis

### References

Hodgson, J. (2023, July 25). The secret history of drill. VICE.

https://www.vice.com/en/article/4a3x3m/secrethistory-drill-music