

The background features two black and white profile portraits of men. On the left, a man is shown from the chest up, wearing dark sunglasses and a patterned shirt. On the right, another man's face is partially visible, looking directly at the viewer with a neutral expression. The central text is positioned between these two images.

# Rapalytics

Trung Nguyen

# Motivation

Are rap song lyrics distinct enough to determine the song's origin?

Regional distinctions:

Rhythm

Flow &  
Delivery

Content

Instruments  
Used

EAST  
VS  
SOUTH  
VS  
WEST

EAST  
VS  
SOUTH  
VS  
WEST

# Distinct Features

## East Coast

lyrical

creative

story

## West Coast

violence

guns

drugs

## Dirty-South

upbeat

catch-phrases

repetitive

# The Data Process

## Wikipedia

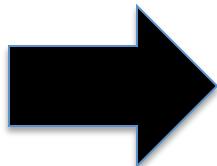
- ➡ Created list of all Hip-Hop and R&B artists
- ➡ Regional classification were also pulled

## Rap Genius

- ➡ Collect entire corpus for each artist

# Results

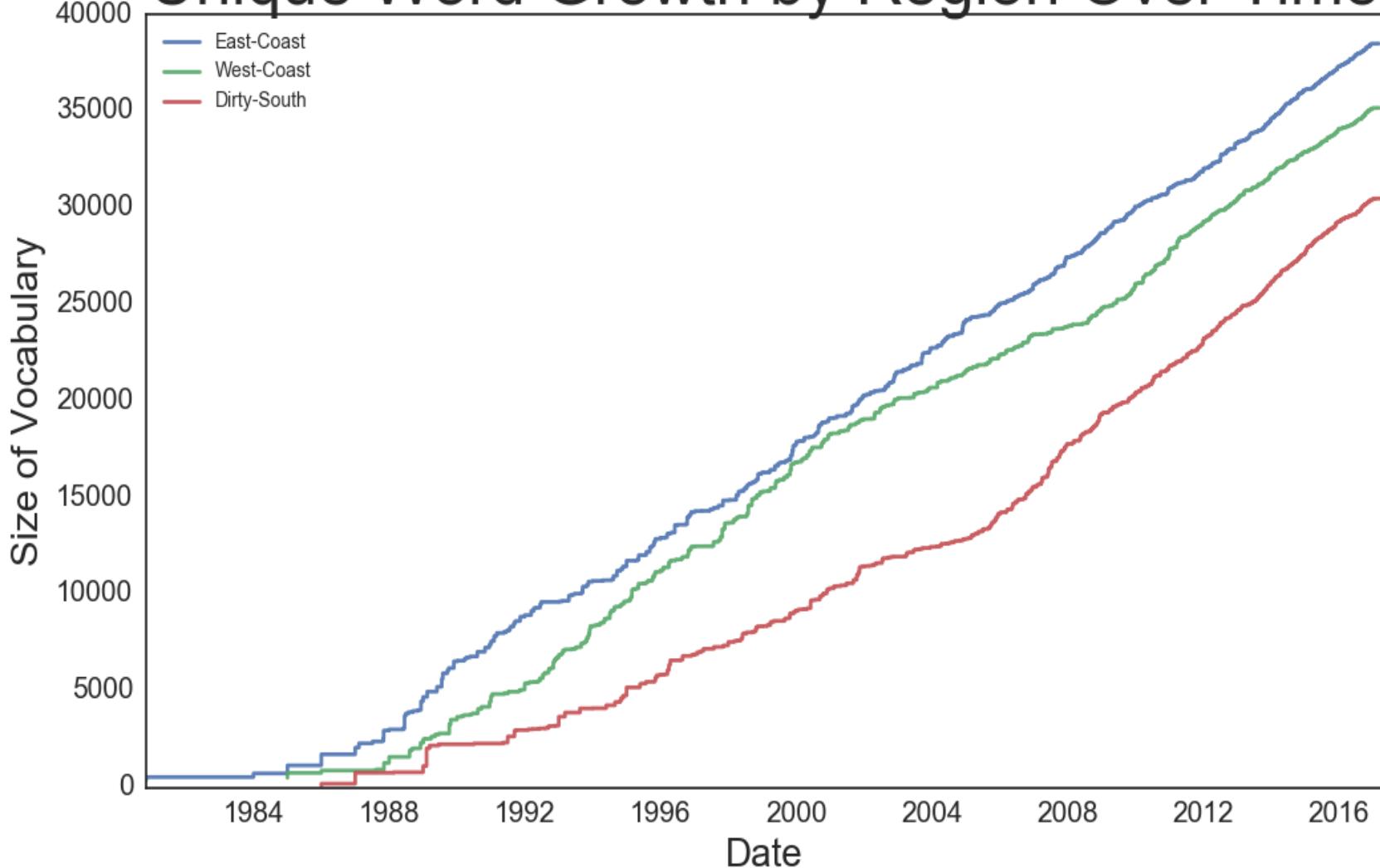
Multinomial  
Naive Bayes



68 %  
Accuracy

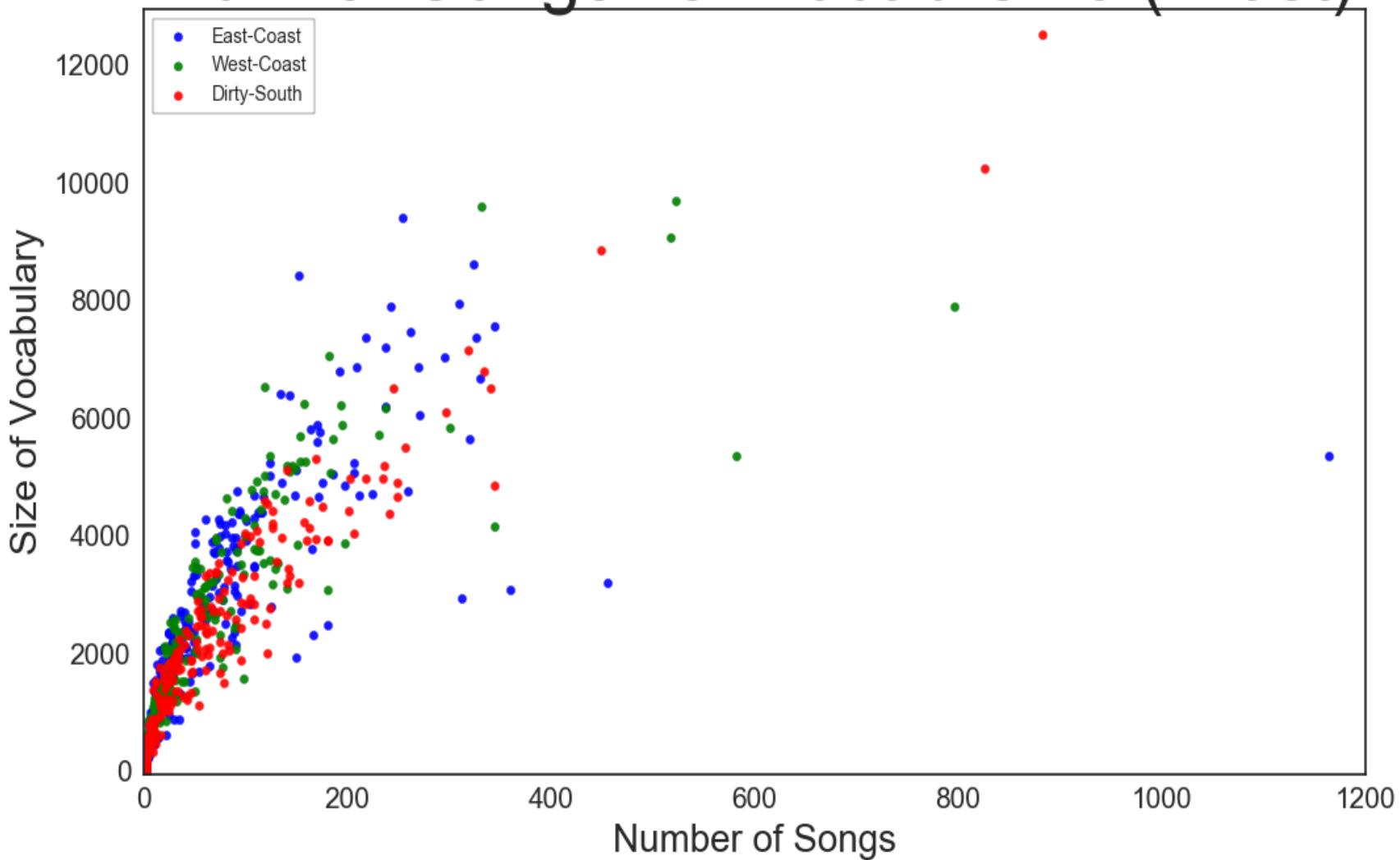
EAST  
VS  
SOUTH  
VS  
WEST

# Unique Word Growth by Region Over Time



EAST  
VS  
SOUTH  
VS  
WEST

# Num of Songs vs. Vocab Size (Artist)



EAST  
VS  
SOUTH  
VS  
WEST



**“Well if you didn’t know,  
well now you know . . .”**  
**-Notorious B.I.G.**

# THANK YOU!



Trungn1/Hip-Hop-Influence



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