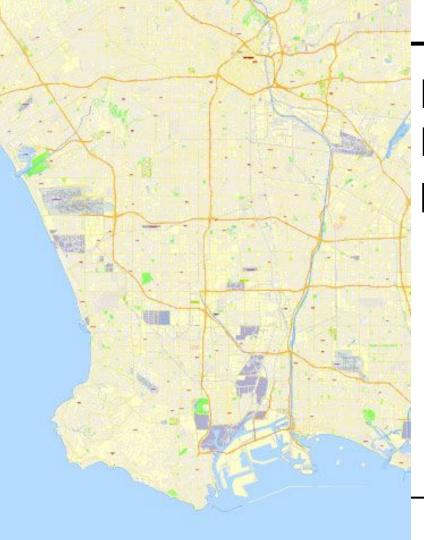


LAirBnB: The L.A. AirBnB Recommender

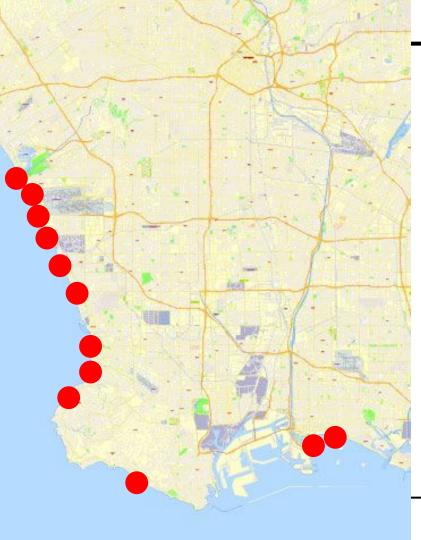
By: Jannie Chang



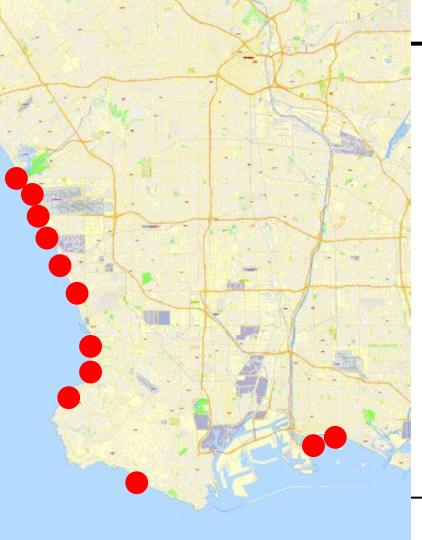
- LA is huge!
- Multiple neighborhoods have similar characteristics.



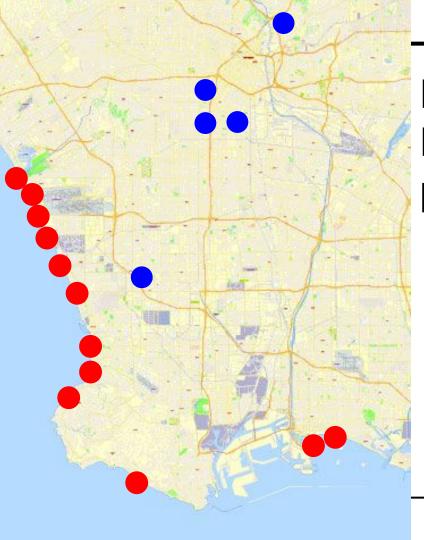
- LA is huge!
- Multiple neighborhoods have similar characteristics
 - Beachfront



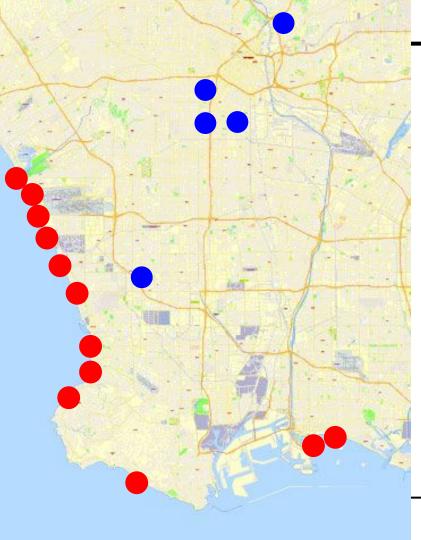
- LA is huge!
- Multiple neighborhoods have similar characteristics
 - Beachfront



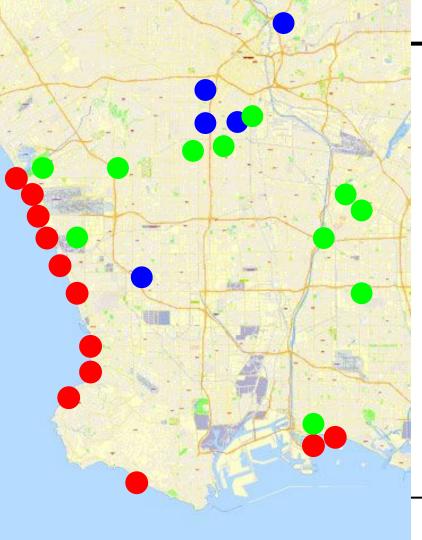
- LA is huge!
- Multiple neighborhoods have similar characteristics
 - Beachfront
 - Film Industry



- LA is huge!
- Multiple neighborhoods have similar characteristics
 - Beachfront
 - Film Industry



- LA is huge!
- Multiple neighborhoods have similar characteristics
 - Beachfront
 - Film Industry
 - Shopping



- LA is huge!
- Multiple neighborhoods have similar characteristics
 - Beachfront
 - Film Industry
 - Shopping

I got my data from 'Inside Airbnb', specifically neighborhood descriptions of L.A. listings.

I got my data from 'Inside Airbnb', specifically neighborhood descriptions of L.A. listings.

I made all the text lower case, removed all punctuation, & drop stopwords.

i got my data from inside __ specifically neighborhood descriptions of __listings

I tokenized the text, breaking up the sentences.

[i, got, my, data, from, inside, specifically, neighborhood, descriptions, of, listings]

I lemmatized some words, removing inflection for consistency.

[i, get, my, data, from, inside, specific, neighborhood, description, of, listing]

Dropped all words but nouns, verbs, adjectives & adverbs.

[get, data, inside, specific, neighborhood, description, listing]

I vectorized my text into bigrams features.

[get data, data inside, inside specific, specific neighborhood, neighborhood description, description listing]

I sorted them by frequency.

[neighborhood description, description listing, get data, specific neighborhood, inside specific, data inside]

Reduced bigram features into fewer dimensions!

Dimension Reduction

Dimension:

beverly hill

century city

rodeo drive

sunset strip

west hollywood

- - easy access
 - access freeway

Dimension:

- public transportation
- major freeway
- convention center

Dimension:

- walk fame
- universal studio
- hollywood sign
- Hollywood highland
- chinese theater

Shopping

Dimensions → Topics Must Commute

Film Industry

- beverly hill
- west hollywood
- century city
- rodeo drive
- sunset strip

- easy access
- access freeway
- public transportation
- major freeway
- convention center

- walk fame
- universal studio
- hollywood sign
- Hollywood highland
- chinese theater

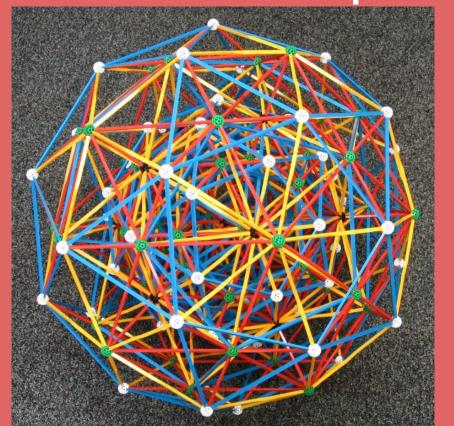
8 Dimensions/Topics

Shopping

Business Trip

Beaches

Parks & Lakes

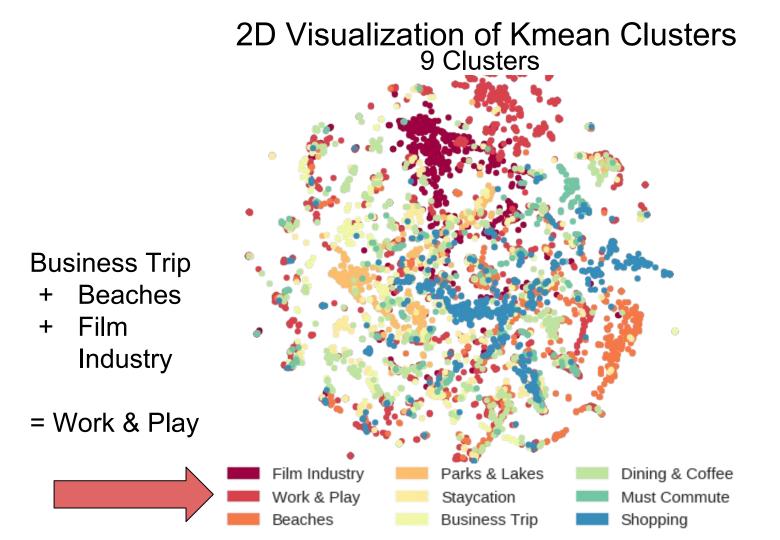


Film Industry

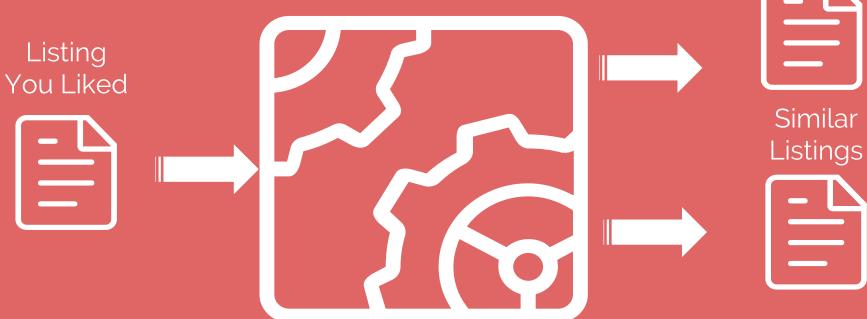
Dining & Coffee

Staycation

Must Commute



LAirBnB Recommender





Finds the most related listings in the same cluster.

LAirBnB Recommender



LAirBnB Recommender





"My place is close to the Vista Theatre, The Hollywood Sign, ...Roscoe's Chicken, Amoeba Music..."

"This is Hollywood.
The boulevard. The
Strip. The Walk of
Fame. Wax museum.
The Hollywood sign.
Star tours."

Film Industry Cluster

Problem solved!
Questions?
Need recommendations?

