

Statistical Analysis Report by Nicole Lam, Nicole Chua, Liya Ye, Richard Ding, Krystal Tan, Kevin Ma



INTRODUCTION

Zillow is a real estate marketplace in which sellers and realtors can post for-sale and rental listings and connect with buyers looking for their next home. As a seller's agent, you want to know how to best market your listing so that you may sell the home as quickly as possible.

What kind of listing description makes a home sell faster? What things should realtors emphasize when trying to present a house?





Census Data Preparation

Before cleaning: 76 variables and 33,123 observations

- Re-format Data
- Filter out non-LA zip codes
- Subset by Middle Class Zip codes

After cleaning: 76 observations and 5 observations



MIddle Class Neighborhoods & Median Incomes



\$64,416

91406

LAKE BALBOA

\$65,336

91331

ARLETA

\$65,649

90045

DEL AIRE

\$66,442

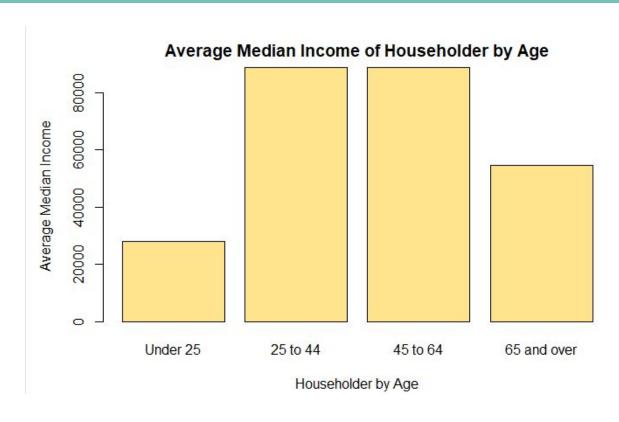
90291

VENICE

\$67,647



Average Median Income of Householder by Age



Zillow Data Preparation

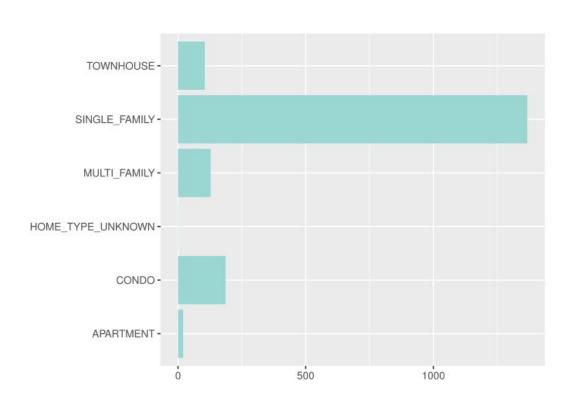
Before cleaning: 44 variables and 34,398 observations

- Re-format Data
- Downsize Data
- Impute NA's by Columns then by Rows
- Subset by Middle Class Zip codes

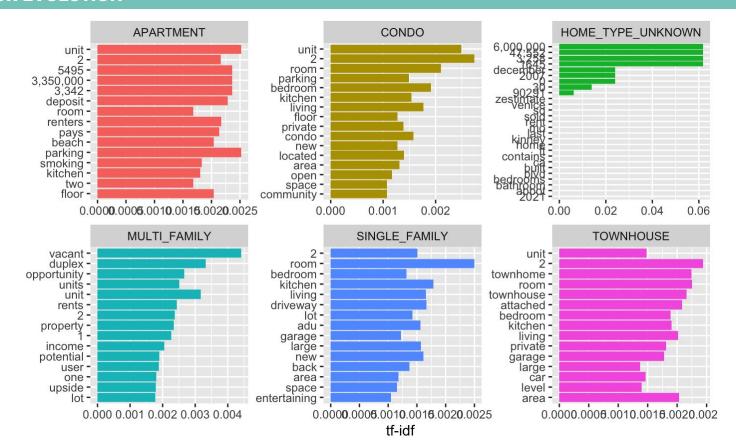


After cleaning: 40 variables and 1,808 observations

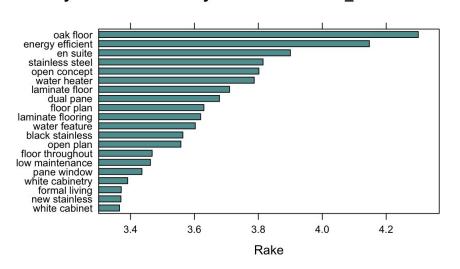
Property Type Count



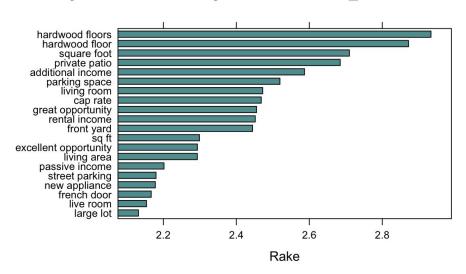
OUR EVOLUTION



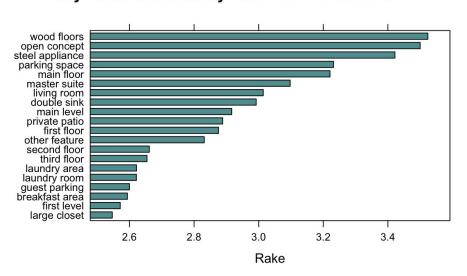
Keywords identified by RAKE for SINGLE_FAMILY



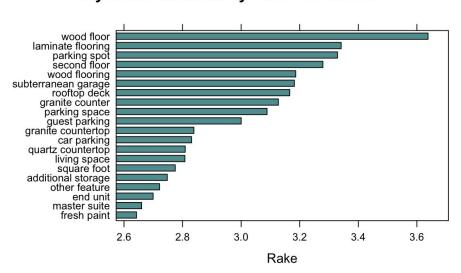
Keywords identified by RAKE for MULTI_FAMILY



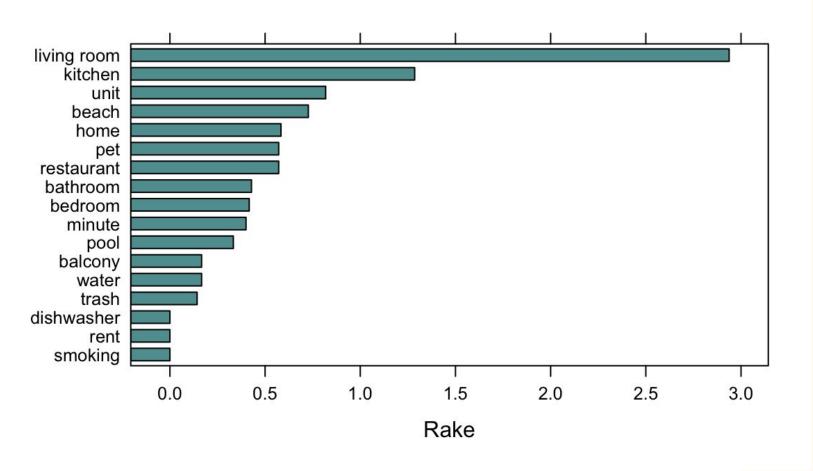
Keywords identified by RAKE for TOWNHOUSE



Keywords identified by RAKE for CONDO



Keywords identified by RAKE for APARTMENT



Cooccurrences within sentence for SINGLE_FAMILY

Nouns & Adjective



Cooccurrences within sentence for MULTI_FAMILY

Nouns & Adjective



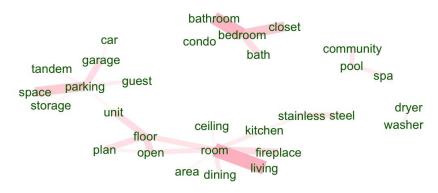
Cooccurrences within sentence for TOWNHOUSE





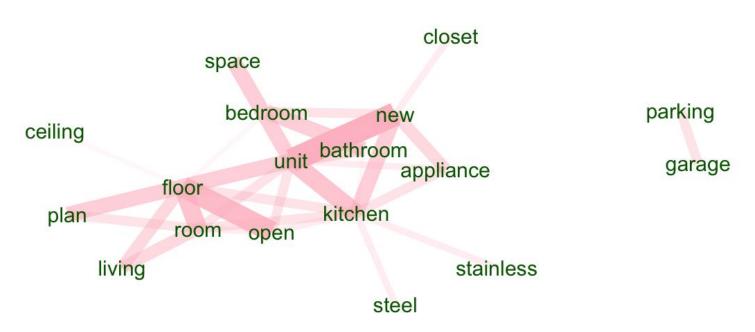
Cooccurrences within sentence for CONDO

Nouns & Adjective



Cooccurrences within sentence for APARTMENT

Nouns & Adjective



Middle Income Households Wordclouds

Condos

bathgreat new two

Townhouse



Middle Income Households Wordclouds

Multi Family



Single Family

```
spacious
backyard bedrooms
familykitchen
bedroom room located
master
area
bath
features new
garage
great
great
```

Summary and Recommendations

- Single Family, Townhouse, Condos Interior Design, Details
- Apartments and Multi Family Amenities, Living Conditions
- Prioritization
- Gain Further Insight on Demographic of Residents by Property
 Type
- List with Adaptable Descriptions
- List with Accommodating Terms
 - Shortcomings:
- Aggregate Findings