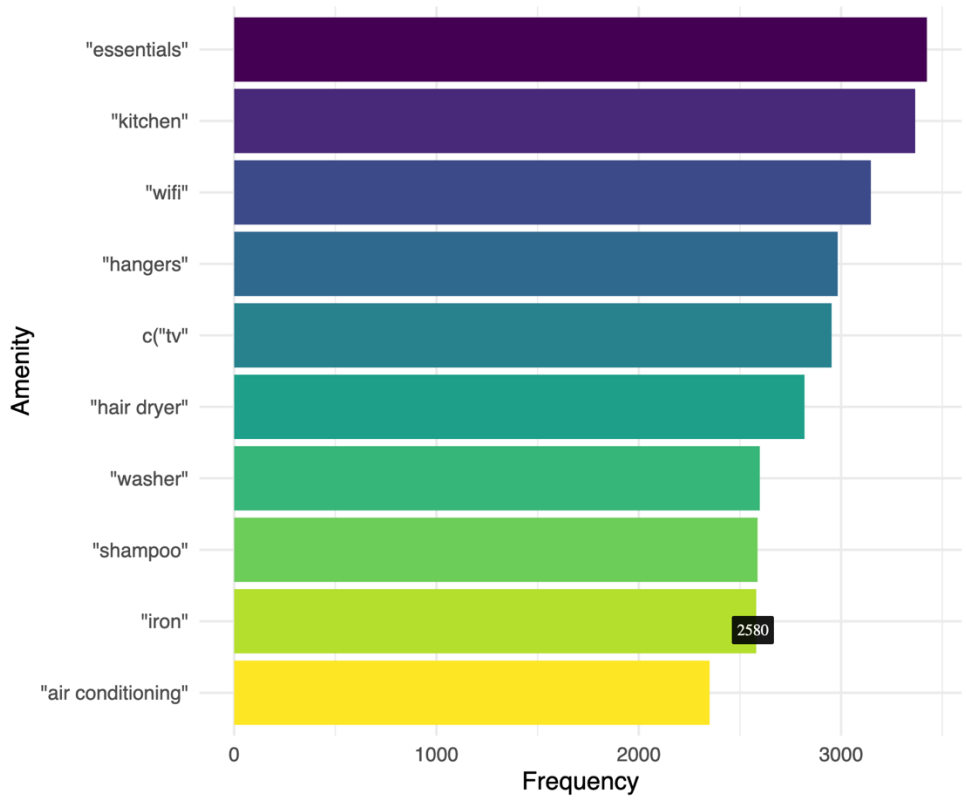
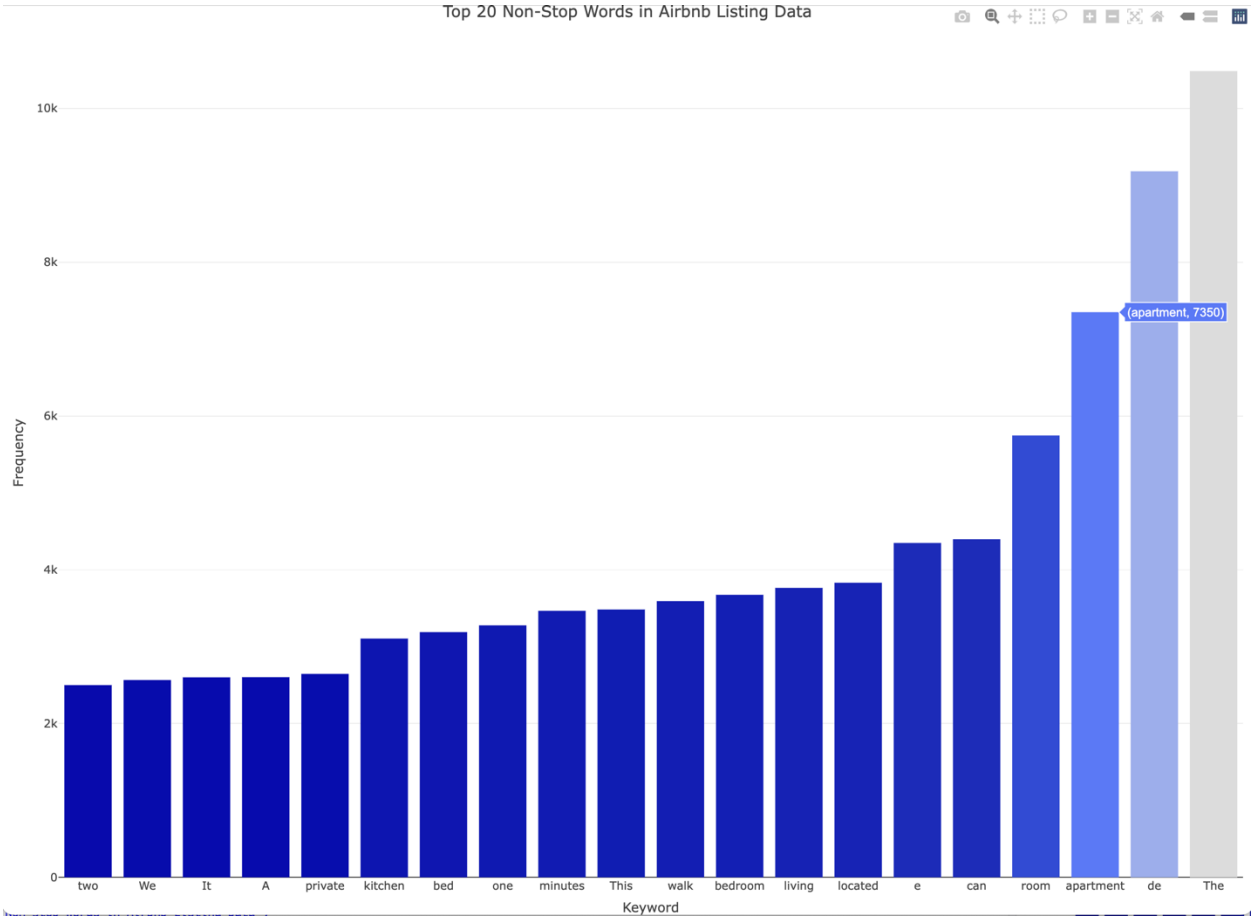
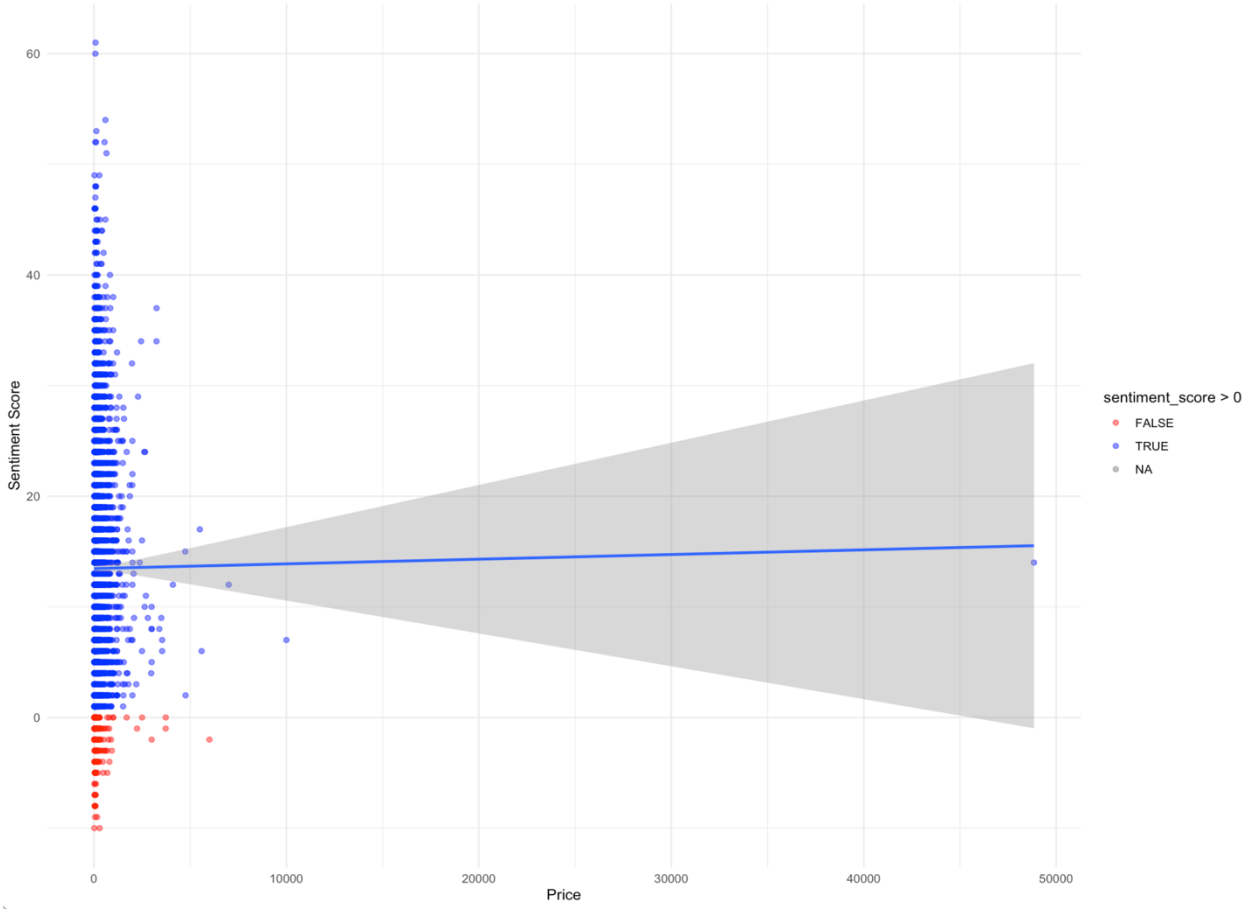
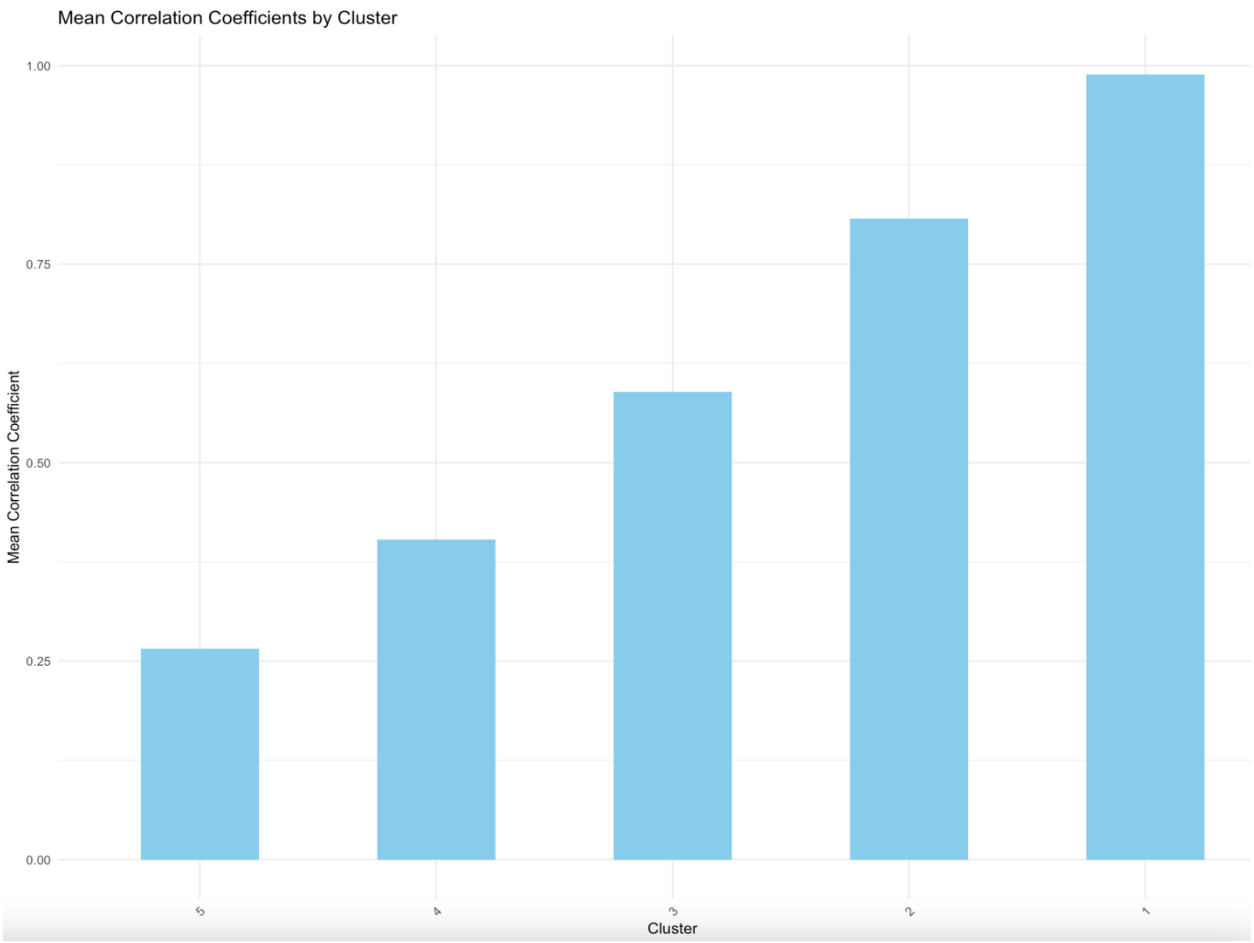
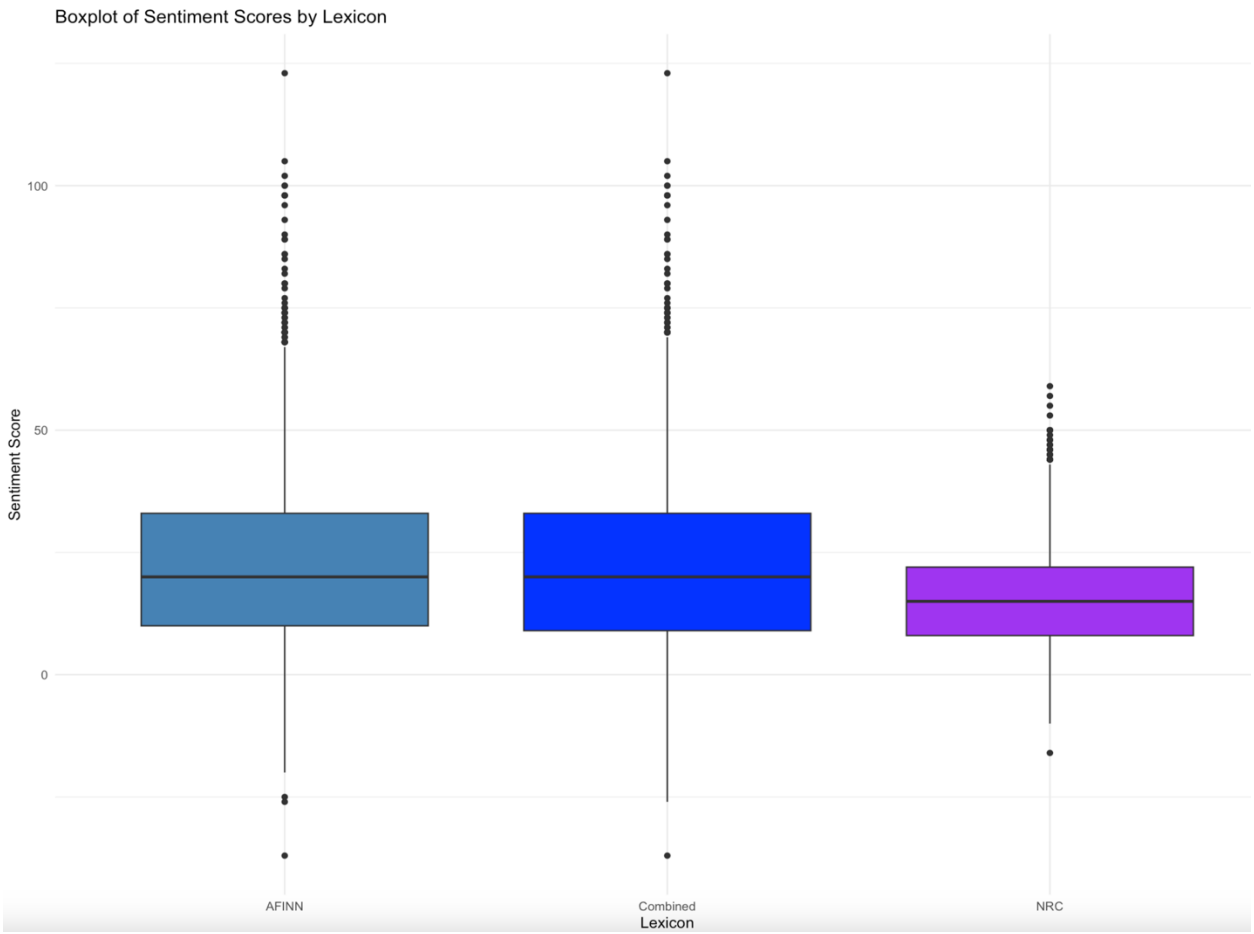
Screenshots of all the visualizations created:

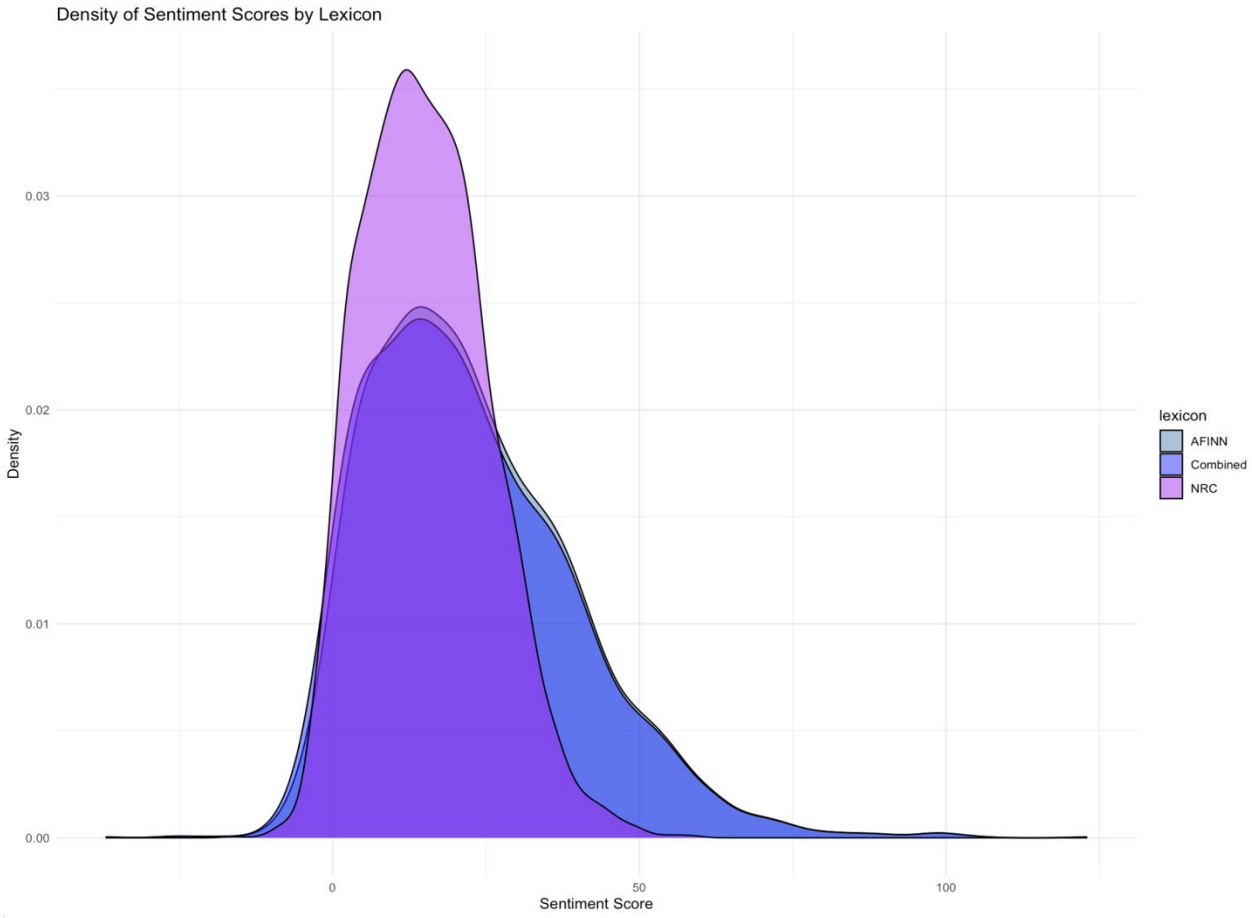


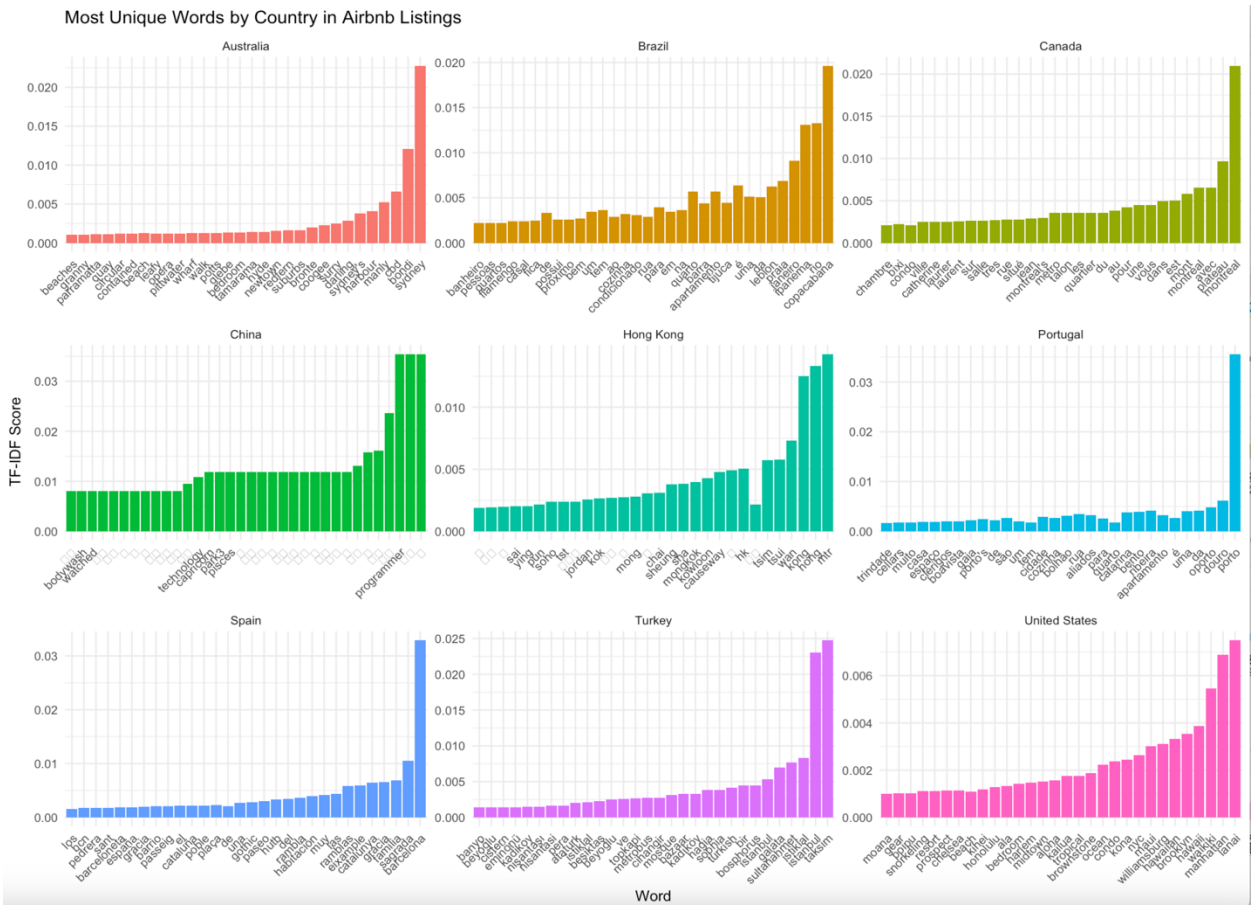

Top 20 Non-Stop Words in Airbnb Listing Data
10k
8k
6k
4k
2k
0
Frequency
(apartment, 7350)
two
We
It
A
private
kitchen
bed
one
minutes
This
walk
bedroom
living
located
e
can
room
apartment
de
The
Keyword


60
40
20
0
Sentiment Score
0
10000
20000
30000
40000
50000
Price
sentiment_score > 0
FALSE
TRUE
NA

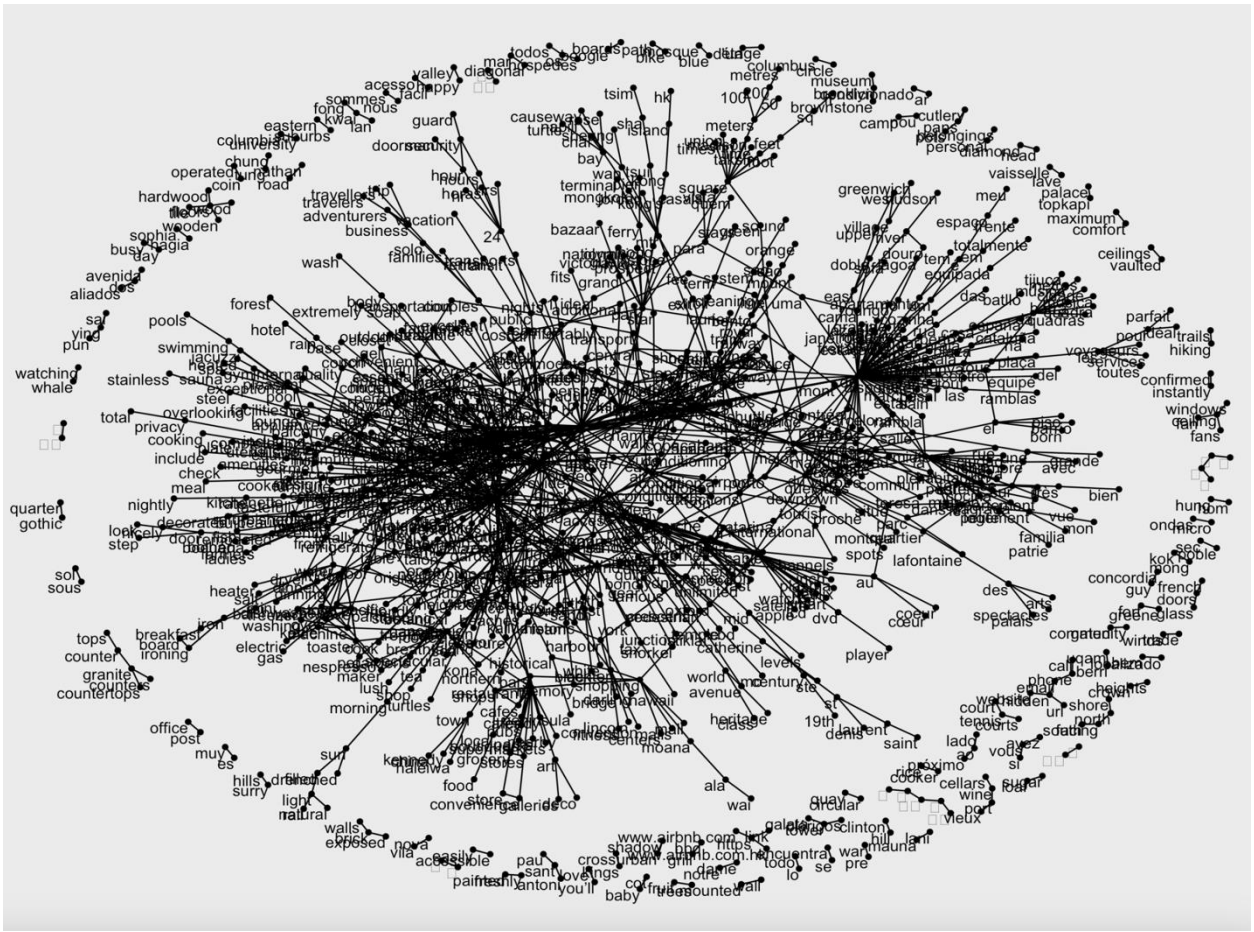

Mean Correlation Coefficients by Cluster
1.00
0.75
0.50
0.25
0.00
Mean Correlation Coefficient
5
4
3
2
1
Cluster

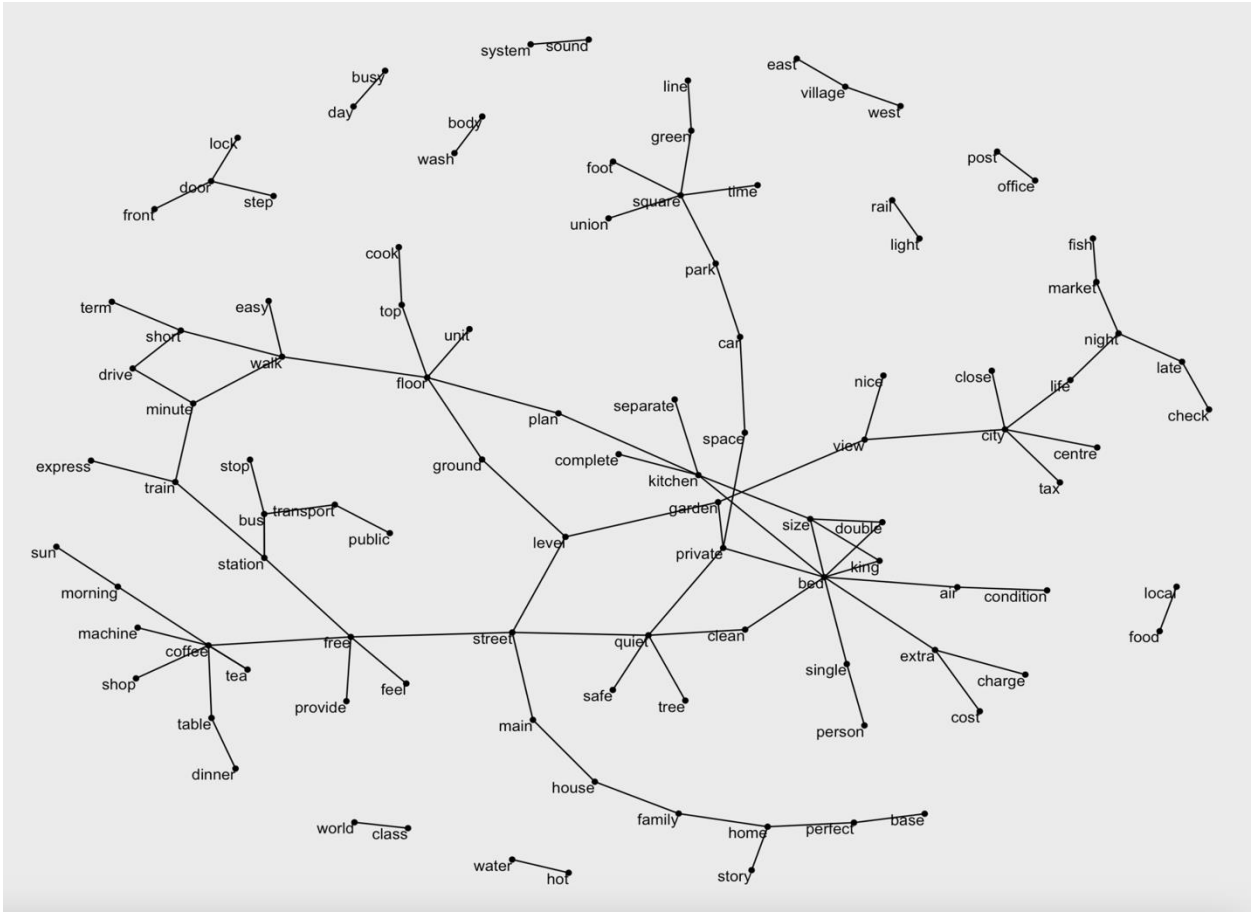

Boxplot of Sentiment Scores by Lexicon
Sentiment Score
100
50
0
AFINN
Combined
NRC
Lexicon

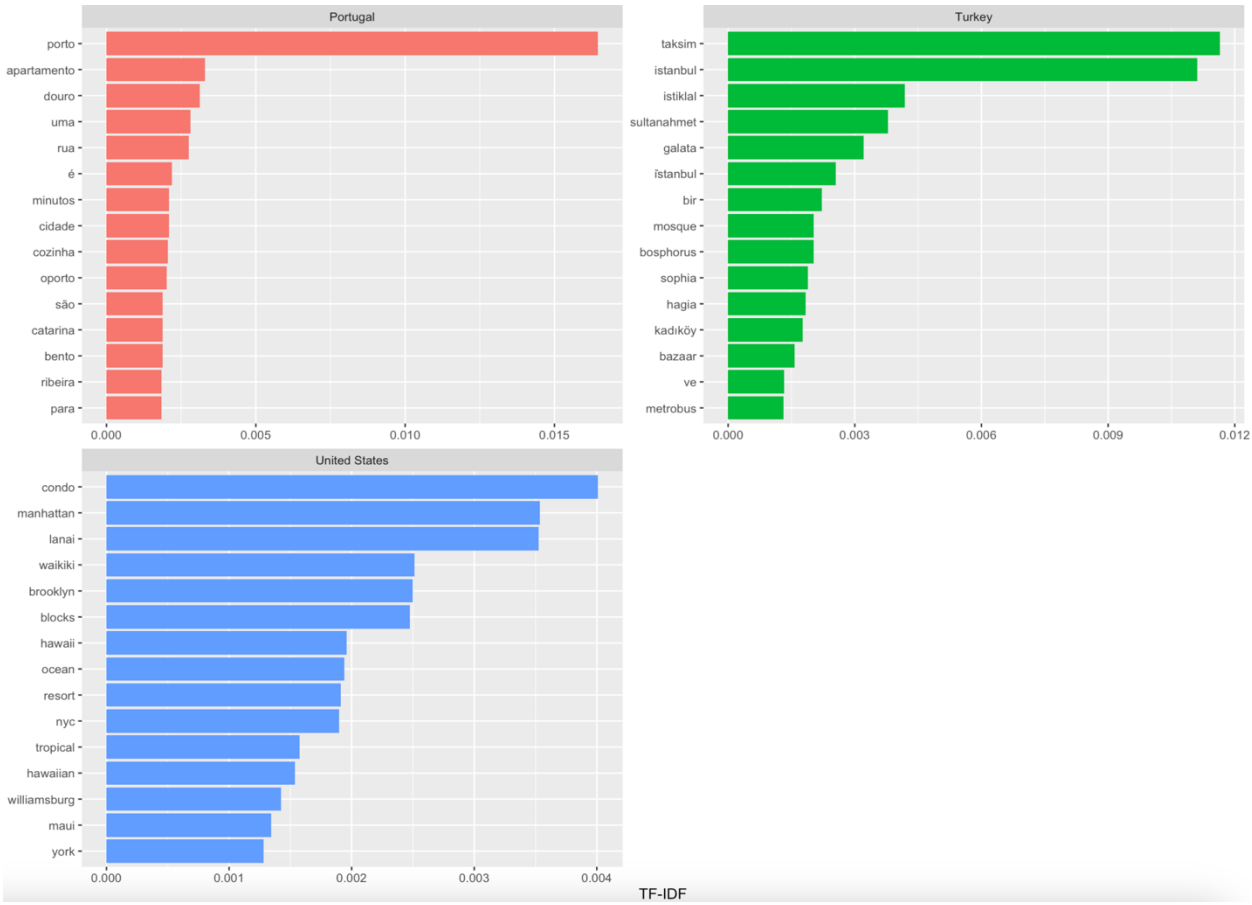

Density of Sentiment Scores by Lexicon
Density
0.03
0.02
0.01
0.00
0
50
100
Sentiment Score
lexicon
AFINN
Combined
NRC

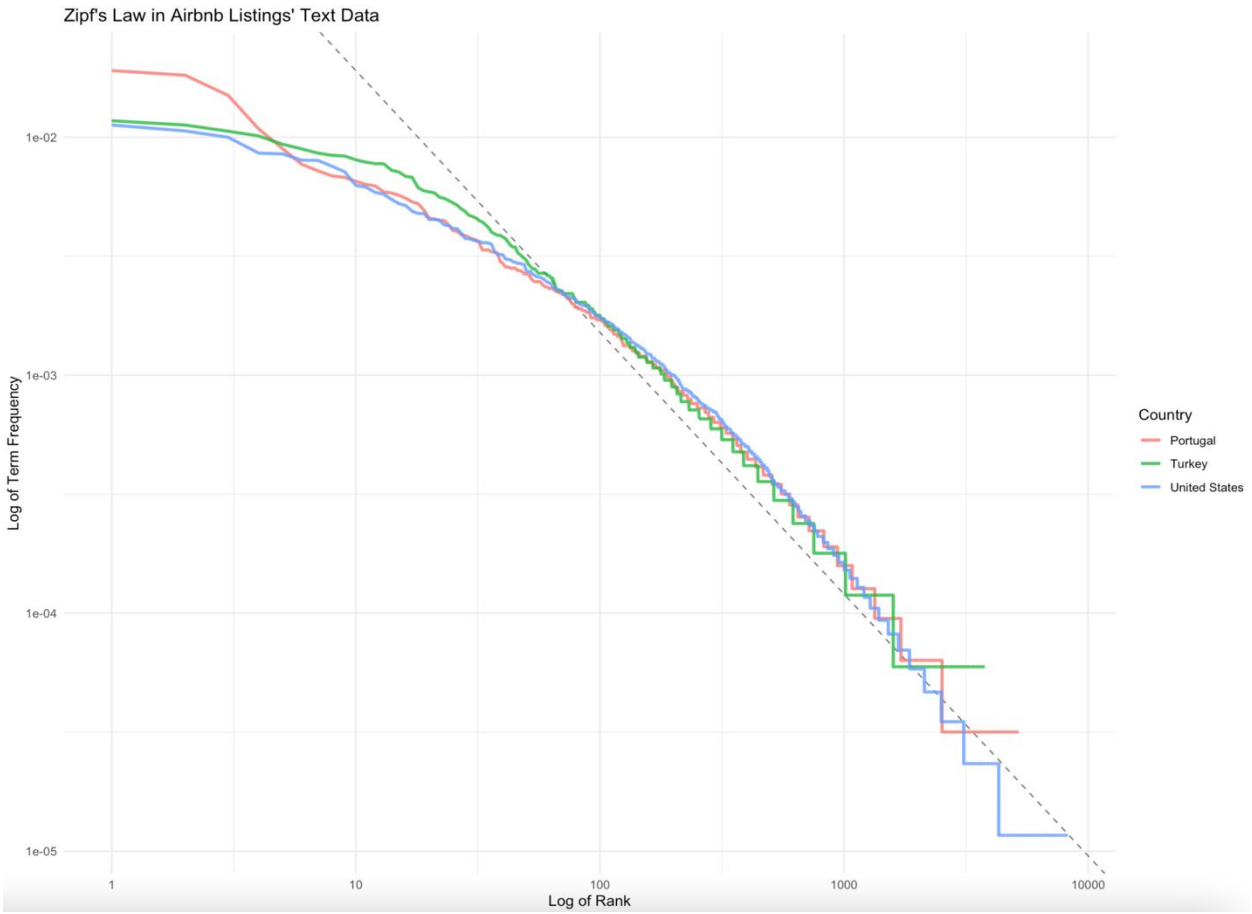

Most Unique Words by Country in Airbnb Listings
Australia
Brazil
Canada
China
Hong Kong
Portugal
Spain
Turkey
United States
TF-IDF Score
Word

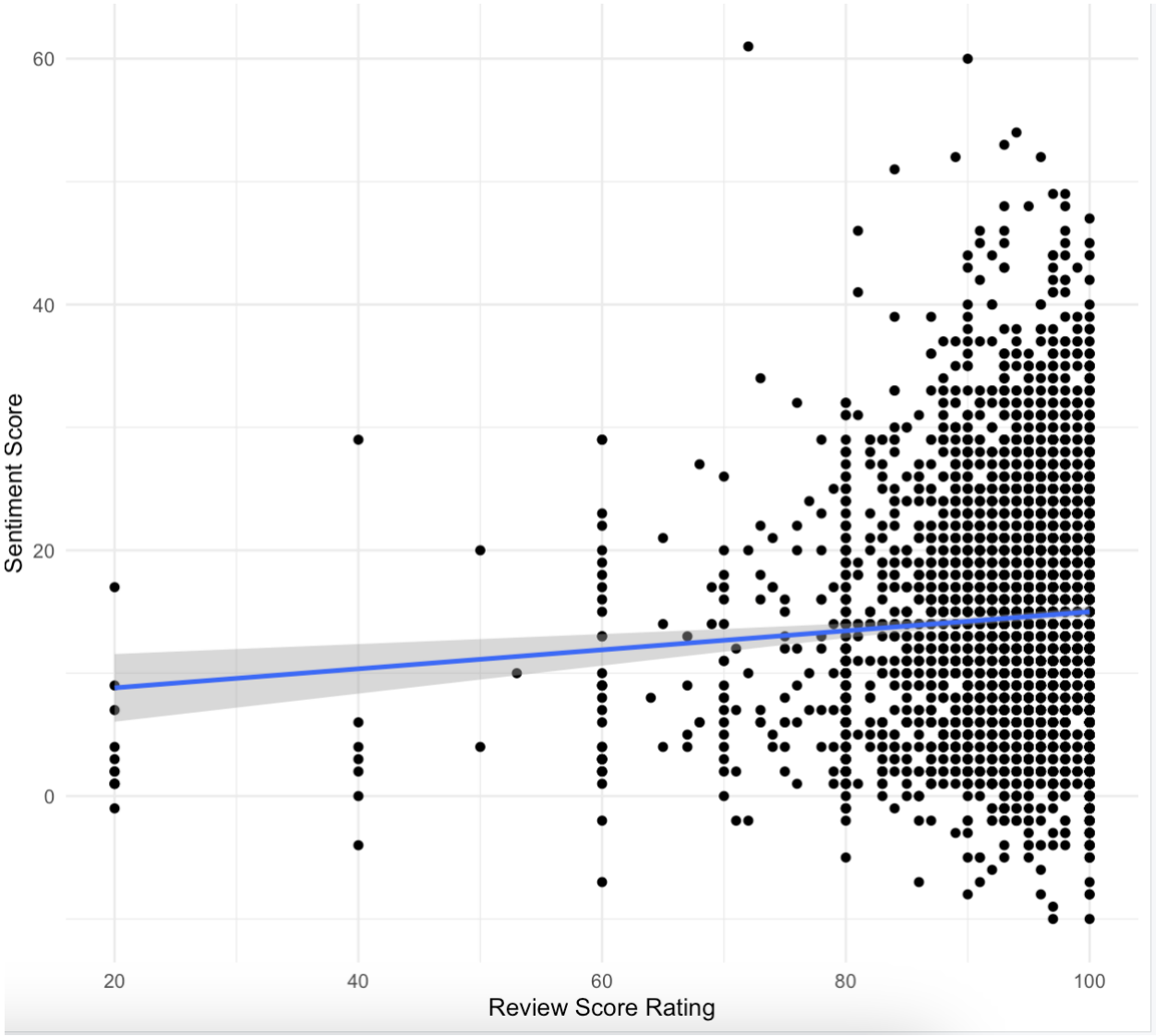
Most Unique Four-grams by Country in Airbnb Listings
Australia
Brazil
Canada
China
Hong Kong
Portugal
Spain
Turkey
United States
TF-IDF Score
Four-gram




system
sound
busy
day
body
wash
lock
door
step
front
line
green
foot
square
time
union
east
village
west
post
office
rail
light
fish
market
night
late
check
life
close
park
car
cook
top
unit
floor
term
easy
short
drive
walk
minute
plan
separate
space
nice
view
city
centre
tax
express
train
stop
ground
complete
kitchen
garden
size
double
king
bed
air
condition
local
food
bus
transport
public
station
lever
private
sun
morning
machine
coffee
tea
shop
table
dinner
free
provide
feel
street
quiet
clean
safe
tree
main
single
extra
charge
cost
person
house
family
home
perfect
base
story
world
class
water
hot


Portugal
porto
apartamento
douro
uma
rua
é
minutos
cidade
cozinha
oporto
são
catarina
bento
ribeira
para
0.000
0.005
0.010
0.015
Turkey
taksim
istanbul
istiklal
sultanahmet
galata
ïstanbul
bir
mosque
bosphorus
sophia
hagia
kadıköy
bazaar
ve
metrobus
0.000
0.003
0.006
0.009
0.012
United States
condo
manhattan
lanai
waikiki
brooklyn
blocks
hawaii
ocean
resort
nyc
tropical
hawaiian
williamsburg
maui
york
0.000
0.001
0.002
0.003
0.004
TF-IDF


Zipf's Law in Airbnb Listings' Text Data
Log of Term Frequency
1e-02
1e-03
1e-04
1e-05
1
10
100
1000
10000
Log of Rank
Country
Portugal
Turkey
United States


60
40
20
0
Sentiment Score
20
40
60
80
100
Review Score Rating