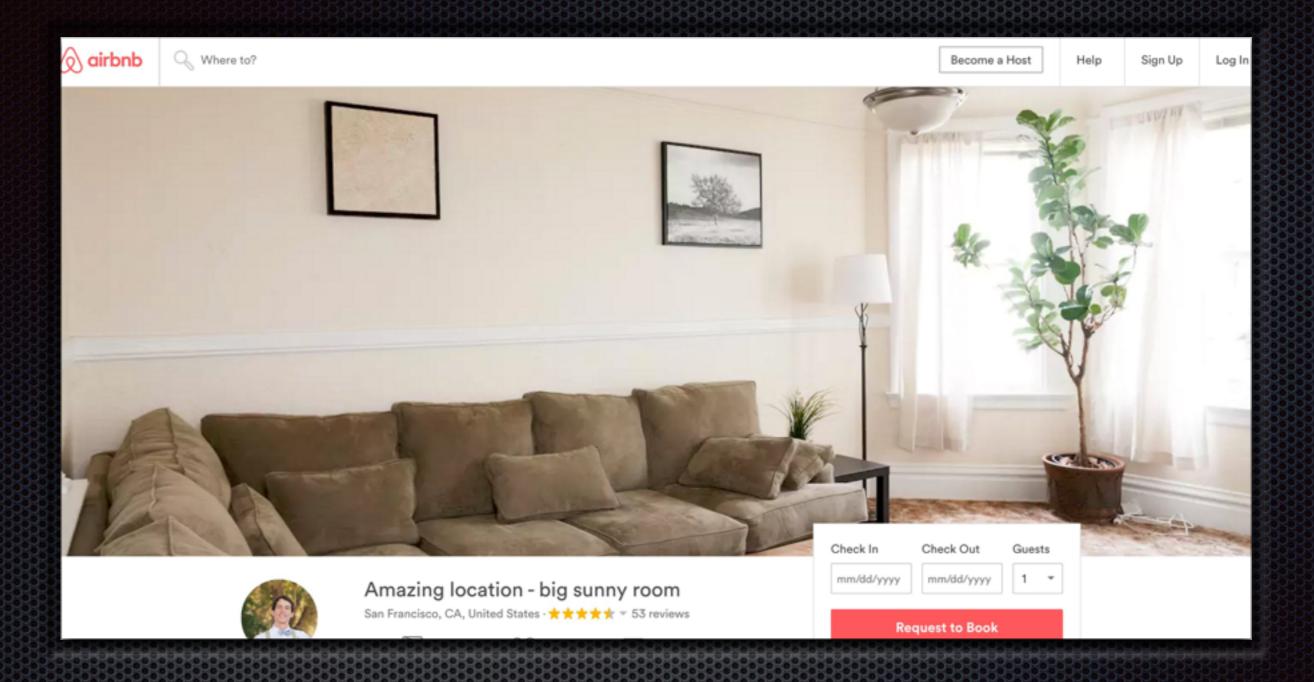
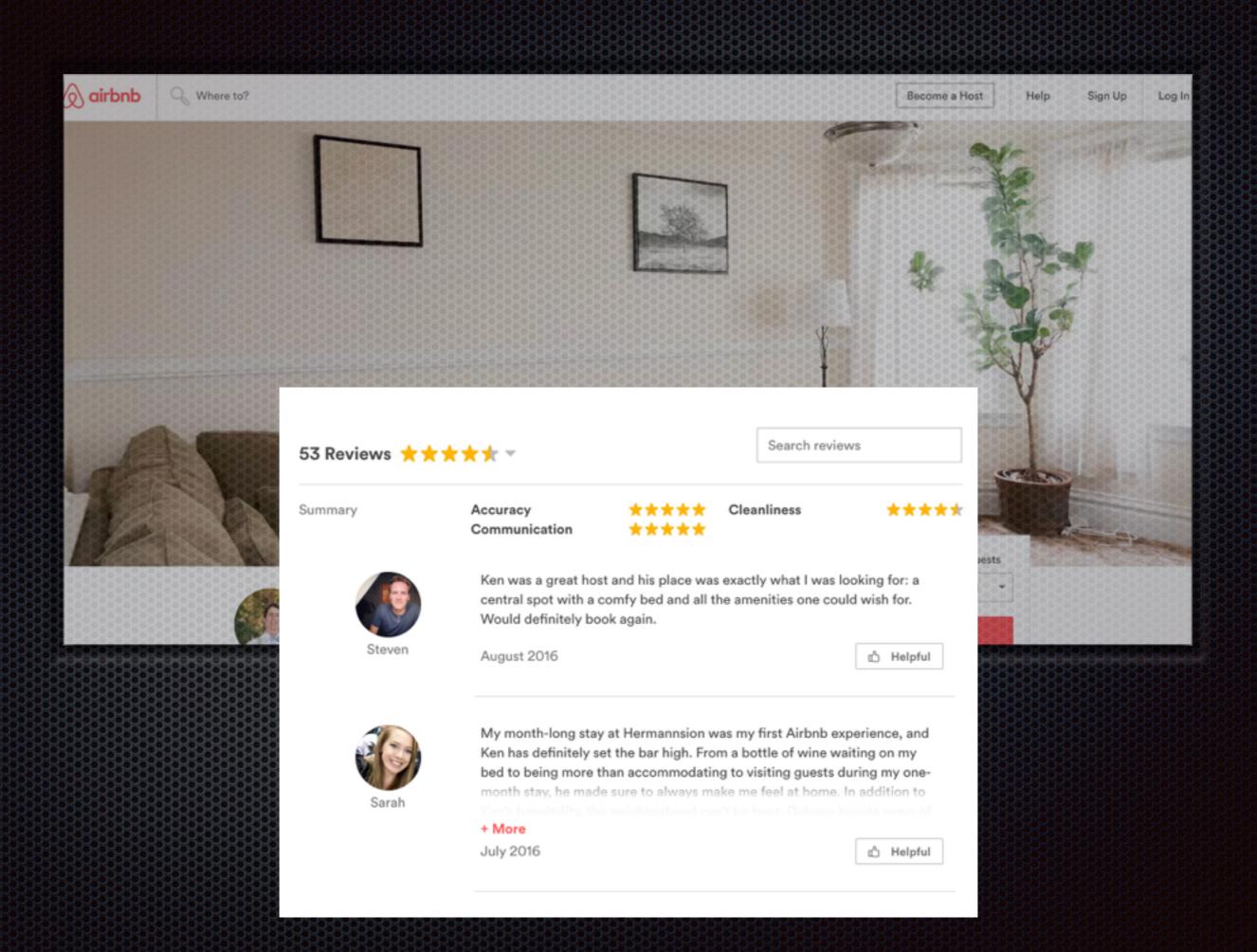
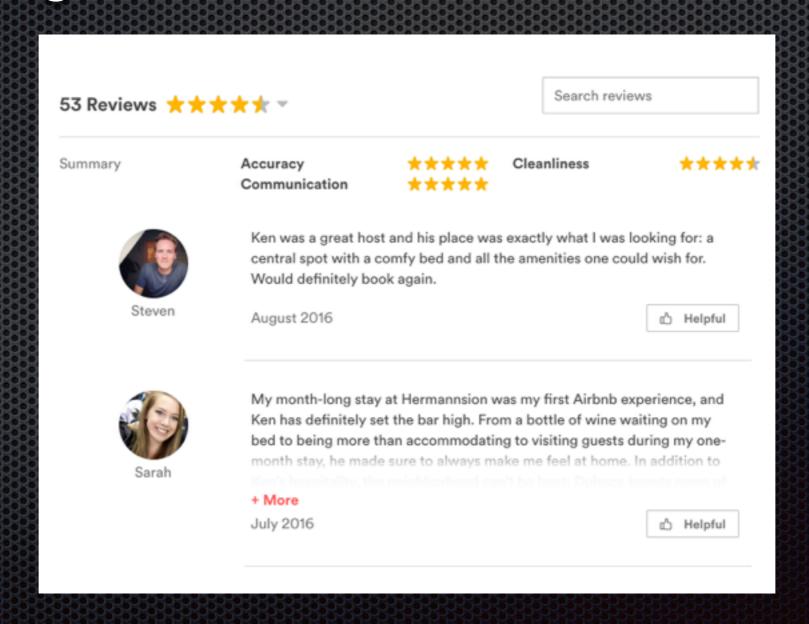
generating airbnb review summaries







- No summary
- No way to sort reviews by rating
- Nothing to do but read them all!



There's got to be a better way!

Chipotle Mexican Grill







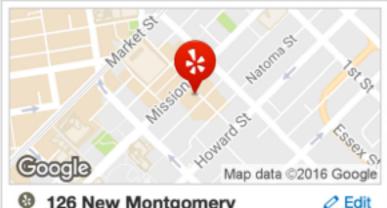
* Write a Review

Add Photo

Share

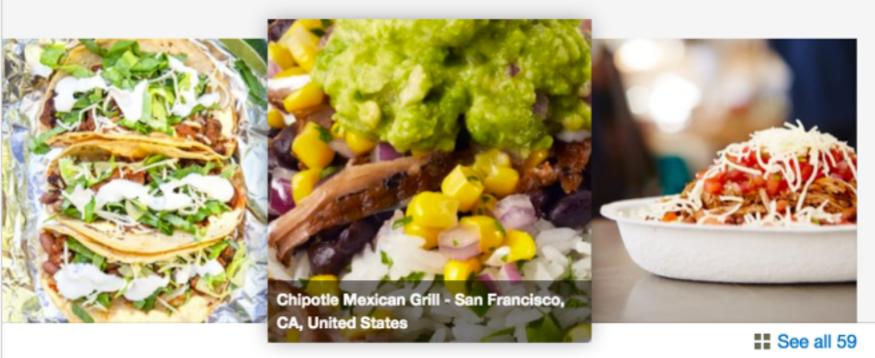
□ Bookmark

\$ · Mexican, Fast Food



4 126 New Montgomery San Francisco, CA 94105 b/t Minna St & Mission St Financial District, SoMa

- Get Directions
- **(**415) 512-8113
- chipotle.com





Chipotle Catering- Perfect For Any Event!

View Now



"Let me just say, that if there is such a thing, I'm a 2/3rds vegetarian or a 1/3rd meatarian." in 15 reviews

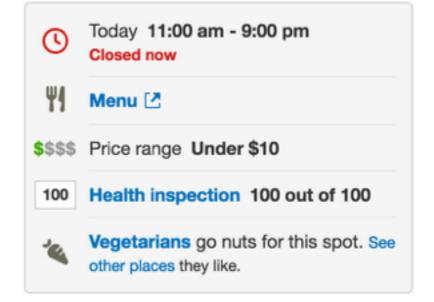


"In the long run, that is a much better return on investment than trying to collect the money for those 7 or 8 burritos." in 99 reviews



"The rice had a nice stickiness to it and the chicken was chopped into small, easy to eat pieces." in 60 reviews

Show more review highlights

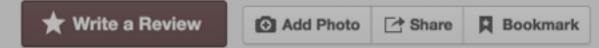


Hours

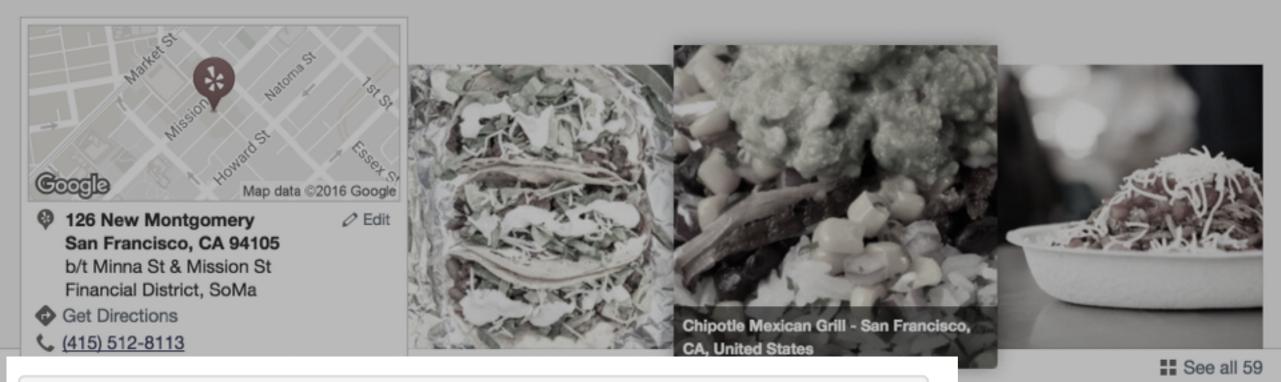
Mon	11:00 am - 9:00 pm
Tue	11:00 am - 9:00 pm
Wed	11:00 am - 9:00 pm
Thu	11:00 am - 9:00 pm

Chipotle Mexican Grill





\$ · Mexican, Fast Food





Chipotle Catering- Perfect For Any Event!

View Now



"Let me just say, that if there is such a thing, I'm a 2/3rds vegetarian or a 1/3rd meatarian." in 15 reviews



"In the long run, that is a much better return on investment than trying to collect the money for those 7 or 8 burritos." in 99 reviews



"The rice had a nice stickiness to it and the **chicken** was chopped into small, easy to eat pieces." in 60 reviews

Show more review highlights

day 11:00 am - 9:00 pm

psed now

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ice range Under \$10

ealth inspection 100 out of 100

getarians go nuts for this spot. See
her places they like.

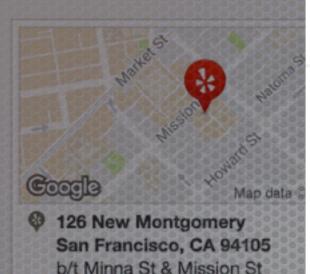
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11:00 am - 9:00 pm 11:00 am - 9:00 pm 11:00 am - 9:00 pm 11:00 am - 9:00 pm

Chipotle Mexica

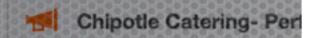
★ ★ ★ ₩ 459 reviews

\$ · Mexican, Fast Food



- Financial District, SoMa

 Get Directions
- (415) 512-8113
- chipotle.com





"Let me just say, that 1/3rd meatarian." in 15



"In the long run, that i collect the money for



"The rice had a nice s easy to eat pieces." in

Show more review highlights

Chipotle Mexican Grill *

Website

Directions

3.7 ★★★★ 99 Google reviews

\$ · Mexican Restaurant

Fast-food chain offering Mexican fare, including design-your-own burritos, tacos & bowls.

Address: 126 New Montgomery St, San Francisco, CA 94105

Phone: (415) 512-8113

Menu: chipotle.com

Hours: Open today · 11AM-9PM ▼

Suggest an edit

Popular times @

Fridays \$

beak

6a 9a 12p 3p 6p 9p

Reviews

Write a review

Add a photo



"The food is awesome especially the burrito bowls."

G "Long Line during lunch but efficient and try to get you through the line fast."



"Reasonable prices, big portions."

Share

Bookmark

See all 59

1:00 am - 9:00 pm

nge Under \$10

nspection 100 out of 100

ians go nuts for this spot. See es they like.

:00 am - 9:00 pm

00 am - 9:00 pm

:00 am - 9:00 pm

00 am - 9:00 pm

BnBot - Data

- Data from Airbnb api and 'insideairbnb.com'
- ~1.8 million reviews
- Ranging from 1 735 reviews per property, with a mean of 25

BnBot - Model

Tf-idf with each individual review as a document

Tried NMF and LSA

BnBot-Model

friendly	0.382574
helpful	0.280812
definitely	0.280117
super	0.254141
home	0.193339
perfect	0.131230
time	0.125468
good	0.119059
hosts	0.102923
welcoming	0.101151
described	0.094625
exactly	0.085618
house	0.076783
accommodating	0.070887
felt	0.068336
like	0.065317
feel	0.058842
come	0.049525
easy	0.046712
awesome	0.045464
Name: 17, dtype:	float64

location	0.508959
host	0.438153
perfect	0.219247
house	0.213264
highly	0.119263
recommend	0.116424
wonderful	0.099380
amazing	0.093439
excellent	0.088183
awesome	0.082185
definitely	0.077566
accommodating	0.069310
friendly	0.067909
beautiful	0.064561
experience	0.064391
good	0.057193
helpful	0.056073
recommended	0.052565
fantastic	0.051461
thank	0.032968
Name: 4, dtype:	float64

perfect	0.404679
experience	0.399142
easy	0.256511
neighborhood	0.217134
hosts	0.184244
friendly	0.181911
helpful	0.159894
really	0.115605
comfortable	0.111134
lovely	0.109154
beautiful	0.103780
accommodating	0.097152
located	0.095378
good	0.091147
quiet	0.090470
airbnb	0.086542
thanks	0.077970
thank	0.074344
access	0.066065
welcoming	0.045121
Name: 16, dtype:	float64

BnBot - Model

- Tf-idf with each individual review as a document
- Tf-idf transform on each review for a property
- Used mean review vector to weight sentences
- Return top sentences, top negative sentences, and the same without top terms

BnBot - App

- Flask app
- Input an Airbnb URL
- Retrieves reviews from api, returns summary
- For comparison:
 - random.shuffle
 - gensim.summarize
 - Vader negative sentiment

BnBot - Improvements

- Deal with spelling and foreign languages
 - pyenchant
- Doc2vec and clustering
- Better techniques for extracting negative reviews
 - Edit weights in Vader for housing related negativity
 - Filter for reviews with lower scores
- Develop a metric for scoring performance
 - Mechanical Turk or Crowdflower